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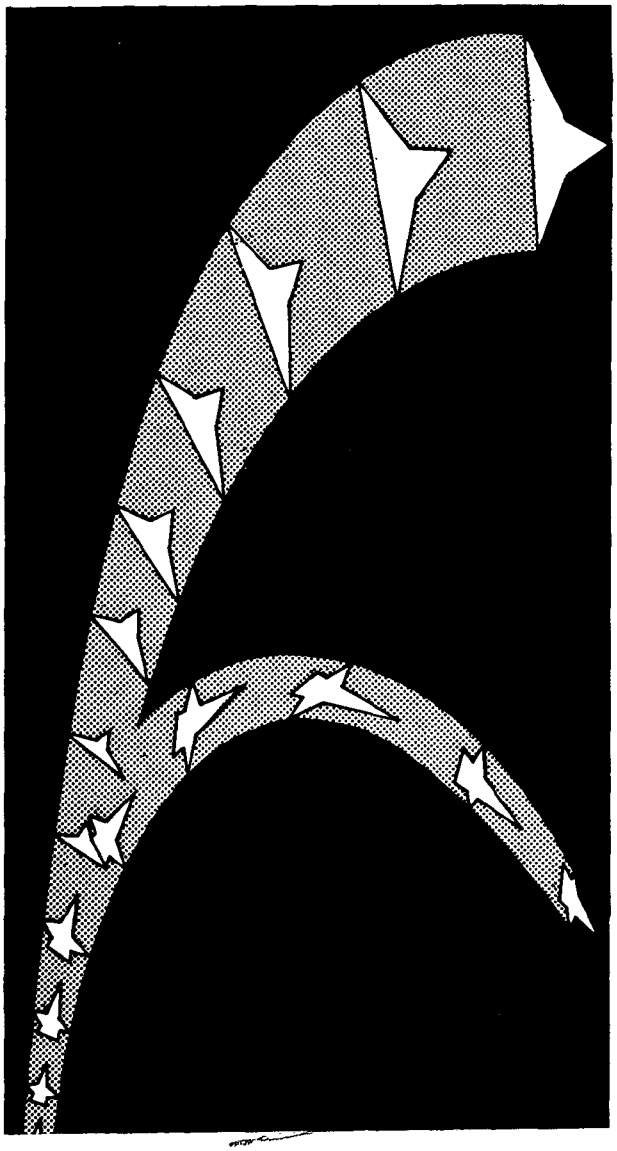

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SADSAC SPACE SHUTTLE
AEROTHERMODYNAMIC
DATA MANAGEMENT SYSTEM

CONTRACT NAS8-4016
MARSHALL SPACE FLIGHT CENTER

SPACE DIVISION CHRYSLER CORPORATION

—SPACE SHUTTLE—

STABILITY AND CONTROL EFFECTIVENESS OF THE MDAC PARAMETRIC DELTA CANARD BOOSTER AT MACH 0.38

Volume II
WING PARAMETRIC VARIATIONS - SIZE AND LOCATION

by
D. Bradley, LMSC/HREC
R. Buchholtz, LMSC/HREC

NSRDC 7X10 - FOOT
TRANSONIC WIND TUNNEL

NAVY SHIP RESEARCH
AND
DEVELOPMENT CENTER

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VOLUME II
OCTOBER, 1971

SADSAC/SPACE SHUTTLE

WIND TUNNEL TEST DATA REPORT

CONFIGURATION: Space Shuttle Parametric Delta Canard Booster .15 Scale

TEST PURPOSE: Investigation of Stability and Control Effectiveness at Mach Number 0.38

TEST FACILITY: NSRDC 7 x 10-Foot Transonic Wind Tunnel

TESTING AGENCY: LMSC/HREC for MSFC

TEST NO. & DATE: NSRDC 3110; March, 1971

FACILITY COORDINATOR: Dale Chadock - NSRDC

PROJECT ENGINEER(S): Dale Bradley - LMSC/HREC

Robert E. Buchholz - LMSC/HREC

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LIAISON: V. W. Sparks

DATA OPERATIONS: for W. R. Morgan

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CONTRACT NAS 8-4016 AMENDMENT 154 DRL 184 - 58

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ABSTRACT

A 0.015 scale model of a modified version of the MDAC Space Shuttle Booster was tested in the Naval Ship Research and Development Center 7 x 10 Foot Transonic Wind Tunnel during March 1971 (Test Number NSRDC 3110) to obtain force, static stability, and control effectiveness data. This test was conducted by Lockheed's Huntsville Research and Engineering Center for the Aero-Astrodynamic Laboratory of the George C. Marshall Space Flight Center. Data were obtained for a cruise Mach Number of 0.38, altitude of 10,000 ft (q = 165 psf), and Reynolds Number per foot of approximately 2×10^6. The model was tested through an angle of attack range of -4° to 15° at zero degree angle of sideslip, and at an angle of sideslip range of -6° to 6° at fixed angles of attack of 0°, 6°, and 15°. Other test variables were elevon deflections, canard deflections, aileron deflections, rudder deflections, wing dihedral angle, canard incidence angle, wing incidence angle, canard position, wing position, wing and canard size, canard control flap size and dorsal fin size.

Plotted data for this test will be published under one data report number (DMS-DR-1139) with four volumes as follows:

I.	Canard Parametric Variations	Data plot pages 1-525
II.	Wing Parametric Variations - Size and Location	Data plot pages 526-1309
III.	Wing Parametric Variations - Incidence and Dihedral	Data plot pages 1310-1804
IV.	Surface Effectiveness, Model Buildup and Directional Stability at High Angles of Attack	Data plot pages 1805-2207

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SUMMARY

A 0.015 scale model of a modified version of the MDAC Space Shuttle Booster was tested in the Naval Ship Research and Development Center 7 x 10 Foot Transonic Wind Tunnel during March 1971 (Test Number NSRDC 3110) to obtain force, static stability, and control effectiveness data. This test was conducted by Lockheed's Huntsville Research and Engineering Center for the Aero-Astrodynamic Laboratory of the George C. Marshall Space Flight Center. Data were obtained for a cruise Mach Number of 0.38, altitude of 10,000 ft (q = 165 psf), and Reynolds Number per foot of approximately 2×10^6. The model was tested through an angle of attack range of -4° to 15° at zero degree angle of sideslip, and at an angle of sideslip range of -6° to 6° at fixed angles of attack of 0°, 6°, and 15°. Other test variables were elevon deflections, canard deflections, aileron deflections, rudder deflections, wing dihedral angle, canard incidence angle, wing incidence angle, canard position, wing position, wing and canard size, canard control flap size, and dorsal fin size.

Plotted data for this test will be published under one data report number (DMS-DR-1139) with four volumes as follows:

I.	Canard Parametric Variations	Data plot pages 1-525
II.	Wing Parametric Variations - Size and Location	Data plot pages 526-1309
III.	Wing Parametric Variations - Incidence and Dihedral	Data plot pages 1310-1804
IV.	Surface Effectiveness, Model Buildup and Directional Stability at High Angles of Attack	Data plot pages 1805-2207

CONFIGURATIONS INVESTIGATED

The baseline model was a 0.015-scale modified version of the McDonnell Douglas model 256-14 booster configuration which was designed by NSRDC to allow the following variations in geometry: canard vertical location, size and incidence angle; wing vertical location, size, incidence angle, dihedral angle and variable wing tip fins; and dorsal fin size. A sketch of the baseline model is shown in Figure 2. In addition to the geometrical variations, the model had deflectable elevons, canard trailing edge flaps, dorsal fin rudders, and wing tip rudders. Deflection angles were obtained by replacing the control surface with a separate surface set to the desired angle. A typical model installation is shown in Figure 3 for configuration B1C2F1W1V1 with an aileron control deflection of 20 degrees.

Four pressure ports were used for measuring the base pressures, and were located as shown in Figure 4. Measurements from the pressure ports were used to calculate the base drag coefficient.

To ensure a turbulent boundary layer, artificial transition strips were applied as shown in Figure 5. Wing, body and canard grit size were calculated by the method of Braslow and Know for a tunnel Reynolds number of 2×10^6 per foot.

Model Components Tested

B1 = Baseline MDAC booster body (length = 3.453 ft)

B2 = Baseline MDAC booster body (length = 3.06 ft)

W1 = Baseline booster wing (planform area = 1.355 ft^2)

W2 = Alternate high aspect ratio wing (planform area = 1.148 ft^2)

V1 = Booster wing tip vertical fin (planform area = 0.226 ft^2)

V2 = Booster wing tip extension (planform area = 0.15 ft^2)

CONFIGURATIONS INVESTIGATED
(CONTINUED)

Model Component Tested (Con't)

D1 = Booster large dorsal fin

D2 = Booster small dorsal fin

D3 = Booster small dorsal fin

C1 = Booster large canard

C2 = Booster small canard

C3 = C2 with F1 portion removed

F1 = Canard trailing edge control surface for C1 (20% chord exposed area)

F2 = Canard trailing edge control surface for C1 (40% chord exposed area)

F3 = Canard flap, F2 for C2 with F1 portion removed

For detailed information on the above components refer to the model component sheets, pages 52 through 68.

Combinations Tested

B1	B1C2F2W1V1
B1W1V1	B1C3F3W1V1
B1C2F1	B1C2F1W1V2
B1C2F2	B1C2F1W1V2D1
B1C1F1W1V1	V1C2F1W1V1D2
B1C1F1W1V2D1	B1C2F1W1V1D3
B1C2F1W1V1	B2C2F1W1V1
B1C2F1W2D2	

See Data Collation Sheets for a complete list of combinations tested.

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES δ_e	δ_c	δ_a	δ_r	Γ_w	i_c	i_w	CND POS	WNG POS
RN2001	B1C2F1W1V1	A	0	38 0	1	0	0	0	0	7°40'	3	0	1	1
002		0	A	39 0										
003		6	↓	40 0										
004		15	↓	41 0							↓			
005		A	0	43 0							15			
006		0	A	44 0										
007		6	↓	45 0										
008		15	↓	46 0							↓		↓	
009		A	0	48 0							3		2	
010		0	A	49 0										
011		6	↓	50 0										
012		15	↓	51 0							↓			
013		A	0	53 0							15			
014		0	A	54 0										
015		6	↓	55 0										
016		15	↓	57 0							↓		↓	↓
017		A	0	58 0							3		1	2
018		0	A	59 0										
019		6	↓	60 0										
020	↓	15	↓	61 0	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN CAF	CA B.P.(1)	CLM B.P.(2)	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		L3

→ IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS: α or β SCHEDULES

αA = -4, 0, 2, 4, 6, 8, 10, 15, 20

βA = -6, -3, 0, 3, 6

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TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST

☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES S_e	S_c	S_t	S_r	Γ_w	i_c	i_w	CND POS	WING POS
RN2021	B1C2F1W1V1	A	0	495 0	1	0	0	0	0	7°40'	15	0	1	2
022		0	A	496 0										
023		6	↓	497 0										
024		15	↓	498 0										
025		A	0	499 0							3		2	
026		0	A	500 0										
027		6	↓	501 0										
028		15	↓	502 0										
029		A	0	503 0							15			
030		0	A	504 0										
031		6	↓	505 0										
032		15	↓	506 0										
033		A	0	507 0							3	3	1	1
034		0	A	508 0										
035		6	↓	509 0										
036		15	↓	510 0										
037		A	0	511 0							15			
038		0	A	512 0										
039		6	↓	513 0										
040		15	↓	514 0										

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		K3
CAE	BP(1)	BP(3)								IDPVAR(1)	IDPVAR(2)	NDV

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

α or β SCHEDULES

$\beta A = -6, -3, 0, 3, 6$

NASA-MSFC-MAF

8

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST

☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES δ_e	δ_c	δ_a	δ_r	Γ_w	i_c	i_w	CND POS	WING POS
RN2041	B1C2F1W1V1	A	0	132 0	1	0	0	0	0	7°40'	3	-3	2	1
042		0	A	133 0										
043		6	↓	135 0										
044		15	↓	136 0										
045		A	0	141 0							15			
046		0	A	142 0										
047		6	↓	143 0										
048		15	↓	144 0									↓	↓
049		A	0	162 0							3		1	2
050		0	A	163 0										
051		6	↓	164 0										
052		15	↓	165 0										
053		A	0	167 0							15			
052		0	A	168 0										
055		6	↓	169 0										
056		15	↓	170 0									↓	
057		A	0	185 0							3		2	
058		0	A	133 0										
059		6	↓	136 0										
060		15	↓	187 0									↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CV	CL	CD	LID	CAB			43
CAF	BB(1)	BB(3)								MACH		

COEFFICIENTS: → IDPVAR(1) | IDPVAR(2) | NDV

α or β SCHEDULES

αA = -4, 0, 2, 4, 6, 8, 10, 15, 20

βA = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES S_e	S_c	S_a	S_r	Γ_w	i_c	i_w	CND POS	WNG POS
RN2061	B1C2F1W1V1	A	0	180 0	1	0	0	0	0	7°40'	15	3	2	2
062	↓	0	A	181 0	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
063		6	↓	182 0										
064		15	↓	183 0										
065	B1C1F1W1V1	A	0	33 0							3	0	1	1
066	↓	0	A	34 0							↓	↓	↓	↓
067		6	↓	35 0										
068		15	↓	36 0										
069		A	0	28 0							15			
070		0	A	29 0							↓			
071		6	↓	30 0										
072		15	↓	31 0										
073		A	0	47 0							3		2	
074		0	A	48 0							↓		↓	
075		6	↓	49 0										
076		15	↓	50 0										
077		A	0	55 0							15			
078		0	A	56 0							↓			
079		6	↓	57 0										
080	↓	15	↓	58 0	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
RN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		AT
CAF	BPC(1)	BPC(3)										

→ IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS:
α or β SCHEDULES

αA : -4, 0, 2, 4, 6, 8, 10, 15, 20

βA = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES δ_e	δ_c	δ_a	δ_r	Γ_w	i_c	i_w	CND POS	WNG POS
RN2081	BICIFIWIVI	A	0	321 0	1	0	0	0	0	7°46	3	0	1	2
082	↓	0	A	322 0	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
083		6	↓	323 0							↓			
084		15	↓	324 0							15			
085		A	0	441 0							↓			
086		0	A	442 0										
087		6	↓	443 0									↓	
088		15	↓	444 0										
089		A	0	476 0							3		2	
090		0	A	477 0							↓		↓	
091		6	↓	478 0										
092		15	↓	479 0										
093		A	0	480 0							15			
094		0	A	481 0							↓			
095		6	↓	482 0								↓	↓	↓
096		15	↓	483 0										
097		A	0	128 0							3	3	1	1
098		0	A	129 0							↓	↓	↓	↓
099		6	↓	130 0										
100		15	↓	131 0	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CRL	CYN	CV	CL	CD	L/D	GAB	MACH		
C.A.F.	BP(1)	BP(3)										

IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS: α_A = -4, 0, 2, 4, 6, 8, 10, 15, 20

α or β SCHEDULES

β_A = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES S_e	S_c	S_a	S_r	Γ_w	i_c	i_w	CND POS	WING POS
RN2101	BICIFIWIVI	A	0	116 0	1	0	0	0	0	7°40'	15	3	1	1
102		0	A	117 0										
103		6	↓	118 0										
104		15	↓	119 0									↓	↓
105		A	0	131 0							3		2	1
106		0	A	132 0										
107		6	↓	133 0							↓			
108		15	↓	149 0										
109		A	0	149 0							15			
110		0	A	150 0										
111		6	↓	151 0							↓		↓	↓
112		15	↓	154 0										
113		A	0	155 0							3		1	2
114		0	A	159 0										
115		6	↓	160 0							↓			
116		15	↓	161 0										
117		A	0	171 0							15			
118		0	A	172 0										
119	↓	6	↓	173 0		↓	↓	↓	↓	↓	↓	↓	↓	↓
120		15	↓	174 0										

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		43
CAF	BPS(1)	BPS(3)										

IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS:
α or β SCHEDULES

αA = -4, 0, 2, 4, 6, 8, 10, 15, 20

βA = -6, -3, 0, 3, 6

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TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES Sc	Sc	Sa	Sr	Γw	Lc	iw	CND POS	WING POS
RN2 121	BICIFIWIV1	A	0	121 D	1	0	0	0	0	7°46'	3	3	2	2
122		0	A	122 D										
123		6		123 D										
124		15		124 D										
125		A	0	126 D							15			
126		0	A	127 D										
127		6		128 D										
128		15		129 D										
129	BICIFIWIV2 DI	A	0	431 D							3	0	1	1
130		0	A	432 D										
131		6		433 D										
132		15		434 D										
133		A	0	435 D							15			
134		0	A	436 D										
135		6		437 D										
136		15		438 D										
137		A	0	72 D							3		2	
138		0	A	73 D										
139		6		74 D										
140		15		75 D										

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CHL	CYN	CY	CL	CD	LID	CAB			
CAF	BP(1)	BP(3)								MACH		

COEFFICIENTS: → IDPVAR(1) | IDPVAR(2) | NDV

α or β SCHEDULES

αA = -4, 0, 2, 4, 6, 8, 10, 15, 20

βA = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER	NO. of RUNS	PARAMETRIC VALUES S_e	S_c	S_a	S_r	Γ_w	i_c	i_w	CND POS	WING POS
RN2141	B1C1F1W1V2D1	A	0	140	1	0	0	0	0	7°40'	15	0	2	1
142		0	A	141										
143		6	↓	142										
144		15	↓	143									↓	↓
145		A	0	144							3		1	2
146		0	A	145										
147		6	↓	146										
148		15	↓	147										
149		A	0	148							15			
150		0	A	149										
151		6	↓	150										
152		15	↓	151									↓	
153		A	0	152							3		2	
154		0	A	153										
155		6	↓	154										
156		15	↓	155										
157		A	0	156							15			
158		0	A	157										
159		6	↓	158										
160		15	↓	159									↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		KT
CAF	BP(1)	BA(3)										

→ IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS:
α or β SCHEDULES

αA = -4, 0, 2, 4, 6, 8, 10, 15, 20

BA = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES δ_e	δ_c	δ_a	δ_r	Γ_w	i_c	i_w	CND POS	WING POS
RN2161	B1C1F1W1V2D1	A	0	153	1	0	0	0	0	7%40'	3	3	1	1
162		0	A	154										
163		6	↓	155										
164		15	↓	156										
165		A	0	112							15			
166		0	A	113										
167		6	↓	114									↓	
168		15	↓	115										
169		A	0	77							3		2	
170		0	A	78										
171		6	↓	79										
172		15	↓	80										
173		A	0	85							15			
174		0	A	86										
175		6	↓	87									↓	↓
176		15	↓	88										
177		A	0	123							3		1	2
178		0	A	124										
179	↓	6	↓	125	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
180		15	↓	126										

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB			KJ
CAE	BB(1)	BB(3)								MACH		

IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS:

α or β SCHEDULES

αA = -4, 0, 2, 4, 6, 8, 10, 15, 20

βA = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES S_e	S_c	S_a	S_r	Γ_w	i_c	i_w	CND POS	WING POS
RN2 181	B1C1F1W1V2 D1	A	0	505 0	1	0	0	0	0	7°40'	15	3	1	2
182		0	A	506 0										
183		6	↓	507 0										
184		15	↓	508 0									↓	
185		A	0	183 0							3		2	
186		0	A	184 0										
187		6	↓	185 0										
188		15	↓	186 0							↓			
189		A	0	500 0							15			
190		0	A	501 0										
191	↓	6	↓	502 0										
192		15	↓	503 0							↓	↓	↓	↓
193	B1C2F1W1V2 D1	A	0	417 0							3	0	1	1
194		0	A	418 0										
195		6	↓	419 0										
196		15	↓	420 0							↓			
197		A	0	437 0							15			
198		0	A	438 0										
199	↓	6	↓	441 0										
200		15	↓	442 0							↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	73 75
CN	CA	CLM	CBL	CYN	CY	CL	CD	LID	CAB	MACH		
CAF	BP(1)	BP(3)								IDPVAR(1)	IDPVAR(2)	NDV

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

α or β SCHEDULES $\beta A = -6, -3, 0, 3, 6$

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES S_e	S_c	S_a	S_r	Γ_w	i_c	i_w	CND POS	WNG POS
RN2201	B1C2FIW1V2.01	A	0	01 0	1	0	0	0	0	7°40'	3	0	2	1
202		0	A	02 0										
203		6	↓	03 0										
204		15	↓	04 0							↓			
205		A	0	05 0							15			
206		0	A	05 0										
207		6	↓	06 0										
208		15	↓	07 0							↓		↓	↓
209		A	0	811 0							3		1	2
210		0	A	812 0										
211		6	↓	813 0										
212		15	↓	814 0							↓			
213		A	0	443 0							15			
214		0	A	444 0										
215		6	↓	445 0										
216		15	↓	446 0							↓		↓	
217		A	0	456 0							3		2	
218		0	A	457 0										
219		6	↓	458 0										
220		15	↓	459 0		↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB			
CAF	BP(1)	BP(3)								MACH		

COEFFICIENTS: → IDPVAR(1) | IDPVAR(2) | NDV

α or β SCHEDULES

α_A = -4, 0, 2, 4, 6, 8, 10, 15, 20

β_A = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0,4	NO. of RUNS	PARAMETRIC VALUES Se	Sc	Sa	Sr	Γw	ic	iw	CND Pos	WNG Pos
RN2221	B1C2F1W1V2D1	A	0	220 0	1	0	0	0	0	7°40'	15	0	2	2
222	↓	0	A	221 0	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
223		6	↓	222 0							↓	↓	↓	↓
224		15	↓	223 0										
225		A	0	94 0							3	3	1	1
226		0	A	95 0							↓	↓	↓	↓
227		6	↓	96 0										
228		15	↓	97 0										
229		A	0	108 0							15			
230		0	A	109 0							↓		↓	
231		6	↓	110 0										
232		15	↓	111 0										
233		A	0	81 0							3		2	
234		0	A	82 0							↓		↓	
235		6	↓	83 0										
236		15	↓	84 0										
237		A	0	87 0							15			
238		0	A	90 0							↓			
239		6	↓	91 0										
240		15	↓	92 0										

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB			43
CAF	BP(1)	BP(3)								MACH		

→ IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS: α or β SCHEDULES

αA = -4, 0, 2, 4, 6, 9, 10, 15, 20

βA = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES S_e	S_c	S_a	S_r	Γ_W	i_c	i_W	CND POS	WNG POS
RN2241	B1C2F1W1V2D1	A	0	521 0	1	0	0	0	0	7°40'	3	3	1	2
242		0	A	521 0										
243		6	↓	521 0										
244		15	↓	532 0										
245		A	0	501 0							15			
246		0	A	510 0										
247		6	↓	511 0										
248		15	↓	514 0									↓	
249		A	0	442 0							3		2	
250		0	A	443 0										
251		6	↓	444 0										
252		15	↓	445 0										
253		A	0	446 0							15			
254		0	A	447 0										
255		6	↓	473 0										
256		15	↓	471 0							↓	↓	↓	↓
257	B1C2F1W2D1	A	0	553 0							3	0	1	1
258		0	A	554 0										
259		6	↓	555 0										
260		15	↓	556 0		↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	LID	CAB	MACH		43
CAE	BP(1)	BA(3)								IDPVAR(1)	IDPVAR(2)	NDV

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

α or β SCHEDULES $\beta A = -6, -3, 0, 3, 6$

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POST TEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES S_e	S_c	S_a	S_r	Γ_w	i_c	i_w	CND POS	WNG POS
RN2261	B1C2F1W2D1	A	0	530	1	0	0	0	0	7°40'	15	0	1	1
262		0	A	531										
263		6	↓	532										
264		15	↓	533									↓	
265		A	0	535							3		2	
266		0	A	536										
267		6	↓	537							↓			
268		15	↓	538										
269		A	0	549							15			
270		0	A	550										
271		6	↓	551									↓	↓
272		15	↓	552										
273		A	0	553									1	2
274		0	A	555										
275		6	↓	556							↓		↓	
276		15	↓	557										
277		A	0	558							3		2	
278		0	A	559										
279		6	↓	560							↓	↓	↓	↓
280		15	↓	561										

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		43
CAF	BP(1)	BP(3)								IDPVAR(1)	IDPVAR(2)	NDV

COEFFICIENTS: α_A : -4, 0, 2, 4, 6, 8, 10, 15, 20

α or β SCHEDULES

β_A : -6, -3, 0, 3, 6

NASA-MSFC-MAP

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES δ_e	δ_c	δ_a	δ_r	Γ_w	i_c	i_w	CND POS	WNG POS
RN2281	B1C2F1W2D1	A	0	511 0	1	0	0	0	0	7%0	15	0	2	2
282	↓	0	A	512 0	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
283		6	↓	513 0										
284		15	↓	514 0										
285		A	0	533 0							3	3	1	1
286		0	A	534 0										
287		6	↓	535 0										
288		15	↓	536 0										
289		A	0	537 0							15			
290		0	A	538 0										
291		6	↓	539 0									↓	
292		15	↓	540 0										
293		A	0	557 0							3		2	
294		0	A	558 0										
295		6	↓	559 0										
296		15	↓	560 0										
297		A	0	563 0							15			
298		0	A	564 0										
299		6	↓	565 0								↓		
300		15	↓	566 0	↓	↓	↓	↓	↓	↓	↓		↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB			13
CAF	BP(1)	BP(3)								MACH		

IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS:
α or β SCHEDULES

αA = -4, 0, 2, 4, 6, 8, 10, 15, 20

βA = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES Se	Sc	Sa	Sr	Γ_W	i_c	i_W	CNO POS	WNG POS
RN2301	B1C2F1W2D1	A	0	531	1	0	0	0	0	7°40'	3	3	1	2
302		0	A	532										
303		6	↓	533										
304		15	↓	534							↓			
305		A	0	535							15			
306		0	A	536										
307		6	↓	537									↓	
308		15	↓	538										
309		A	0	539							3		2	
310		0	A	540										
311		6	↓	541							↓			
312		15	↓	542							15			
313		A	0	543										
314		0	A	544										
315		6	↓	545										
316	↓	15	↓	546		↓	↓	↓	↓	↓	↓	↓	↓	↓
317	B1	A	0	401		–	–	–	–	–	–	–	–	–
318		0	A	402		–	–	–	–	–	–	–	–	–
319		6	↓	403		–	–	–	–	–	–	–	–	–
320	↓	15	↓	404	↓	–	–	–	–	–	–	–	–	–

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		15
CAF	BPS(1)	RF(3)										

IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

α or β SCHEDULES

$\beta A = -6, -3, 0, 3, 6$

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES δ_e	δ_c	δ_a	δ_r	Γ_w	i_c	L_w	CND POS	WNG POS
RN2321	B1C2F2W1V1	A	0	0	1	0	10	0	0	7%	3	0	1	1
322		0	A	0										
323		6	↓	0										
324		15	↓	0										
325		A	0	0			20							
326		0	A	0										
327	↓	6	↓	0		↓	↓							
328		15	↓	0										
329	B1C2F1W1V1	A	0	0		-20	0							
330	↓	0	A	0		↓	↓							
331		6	↓	0										
332		15	↓	0										
333	B1C2F2W1V1	A	0	0			10							
334	↓	0	A	0										
335		6	↓	0										
336		15	↓	0										
337		A	0	0			20							
338		0	A	0										
339		6	↓	0										
340	↓	15	↓	0	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
KN	CA	CLM	CBL	CYN	CY	CL	CD	LID	CAB			73
C.A.E.	B.P.(1)	B.P.(3)								MACH		

→ IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS: α_A = -4, 0, 2, 4, 6, 8, 10, 15, 20

α or β SCHEDULES

β_A = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES δ_e	δ_c	δ_a	δ_r	Γ_w	i_c	ι_N	CND POS	WNG POS
RN2341	B1C2F1W1V1	A	0	611	1	-10	0	0	0	7%	3	0	1	1
342		0	A	612										
343		6	↓	613										
344	↓	15	↓	614			↓							
345	B1C2F2W1V1	A	0	616			10							
346		0	A	617			↓							
347		6	↓	618										
348		15	↓	619			↓							
349		A	0	621			20							
350		0	A	622			↓							
351		6	↓	623										
352	↓	15	↓	624		↓	↓							
353	B1C2F1W1V1	A	0	625		10	0							
354		0	A	626			↓							
355		6	↓	627										
356	↓	15	↓	628			↓							
357	B1C2F2W1V1	A	0	630			10							
358		0	A	631			↓							
359		6	↓	632										
360	↓	15	↓	633		↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		13
C.A.E.	B.P.(1.)	B.P.(3.)									IDPVAR(1)	IDPVAR(2) NDV

COEFFICIENTS: α_A = -4, 0, 2, 4, 6, 8, 10, 15, 20

α or β SCHEDULES

β_A = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES δ_e	δ_c	δ_a	δ_r	Γ_w	i_c	λ_w	CND POS	WNG POS
RN2361	B1C2F2W1V1	A	0	0	1	10	20	0	0	7%	3	0	1	1
362	↓	0	A	0	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
363		6	↓	0										
364	↓	15	↓	0		↓	↓							
365	B1C2F1W1V1	A	0	0		20	0							
366	↓	0	A	0		↓	↓							
367		6	↓	0										
368	↓	15	↓	0			↓							
369	B1C2F2W1V1	A	0	0			10							
370	↓	0	A	0			↓							
371		6	↓	0										
372	↓	15	↓	0			↓							
373		A	0	0			20							
374		0	A	0			↓							
375		6	↓	0										
376	↓	15	↓	0		↓	↓							
377	B1C2F1W1V1	A	0	0		30	0							
378	↓	0	A	0		↓	↓							
379		6	↓	0										
380	↓	15	↓	0	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB			73
C.A.E.	B.P.(1.)	B.P.(3.)								MACH		

IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS: α_A = -4, 0, 2, 4, 6, 8, 10, 15, 20

α or β SCHEDULES

β_A = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES Se	Sc	Sa	Sr	Tw	ic	iN	CNO POS	WNG POS
RN2381	B1G2F2W1V1	A	0	0	1	30	10	0	0	7°40'	3	0	1	1
382		0	A	0										
383		6	↓	0										
384		15	↓	0										
385		A	0	0			20							
386		0	A	0										
387		6	↓	0										
388		15	↓	0		↓	↓	↓						
389		A	0	0		0	0	10						
390		0	A	0										
391		6	↓	0										
392		15	↓	0				↓						
393		A	0	0				20						
394		0	A	0										
395		6	↓	0										
396		15	↓	0		↓	↓	↓						
397		A	0	0		-10	0	10						
398		0	A	0										
399		6	↓	0										
400		15	↓	0		↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		
C.A.F.	B.P.(1).	AP(3).										

IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS:
α or β SCHEDULES

αA : -4, 0, 2, 4, 6, 8, 10, 15, 20

βA : -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES Se	Sc	Sa	Sr	Tw	ic	iw	CNO POS	WING POS
RN2401	B1C2F2W1V1	A	0	733 0	1	-10	0	20	0	7°40'	3	0	1	1
402		0	A	734 0										
403		6		735 0										
404		15		736 0										
405		A	0	721 0		10		10						
406		0	A	722 0										
407		6		723 0										
408		15		724 0										
409		A	0	725 0				20						
410		0	A	726 0										
411		6		727 0										
412		15		728 0										
413		A	0	741 0		0	20	10						
414		0	A	742 0										
415		6		743 0										
416		15		744 0										
417		A	0	753 0		0	20	20						
418		0	A	754 0										
419		6		755 0										
420		15		756 0										

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB			VS
C.A.F.	B.C.L.W.	RC(3)								MACH		

COEFFICIENTS: → IDPVAR(1) | IDPVAR(2) | NDV

α or β SCHEDULES

αA = -4, 0, 2, 4, 6, 8, 10, 15, 20

βA = -6, -3, 0, 3, 6

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TEST NSWC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES δe	δc	δa	δr	Γw	ic	iw	CNO POS	WNG POS
RN2421	B1C2F2W1V1	A	0	733 0	1	-10	20	-10	0	7°40'	3	0	1	1
422		0	A	734 0										
423		6	↓	735 0										
424		15	↓	740 0				↓						
425		A	0	737 0				20						
426		0	A	738 0										
427		6	↓	739 0										
428		15	↓	760 0		↓		↓						
429		A	0	745 0		10		10						
430		0	A	746 0										
431		6	↓	747 0										
432		15	↓	748 0				↓						
433		A	0	749 0				20						
434		0	A	750 0										
435		6	↓	751 0										
436	↓	15	↓	752 0		↓	↓	↓	↓	↓		↓		↓
437	B1C2F1	A	0	413 0		—	0	—	—	—		—		—
438		0	A	414 0		—	↓	—	—	—		—		—
439		6	↓	415 0		—		—	—	—		—		—
440	↓	15	↓	416 0	↓	—	↓	—	—	—	↓	—	↓	—

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	CLO	CAB	MACH		
CAF	BPL(1)	BPL(2)								IDPVAR(1)	IDPVAR(2)	NDV

COEFFICIENTS: α_A = -4, 0, 2, 4, 6, 8, 10, 15, 20

α or β SCHEDULES

β_A = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES Se	Sc	Sa	Sr	Γ_W	i_c	i_W	CND POS	WNG POS
RN2441	B1C2F1	A	0	711	1	–	10	–	–	–	3	–	1	–
442		0	A	712		–		–	–	–		–		–
443		6		713		–		–	–	–		–		–
444		15		714		–		–	–	–		–		–
445		A	0	715		–	20	–	–	–		–		–
446		0	A	716		–		–	–	–		–		–
447		6		717		–		–	–	–		–		–
448		15		718		–		–	–	–		–		–
449	B1C2F2	A	0	719		–		–	–	–		–		–
450		0	A	720		–		–	–	–		–		–
451		6		801		–		–	–	–		–		–
452		15		802		–		–	–	–		–		–
453		A	0	803		–	10	–	–	–		–		–
454		0	A	804		–		–	–	–		–		–
455		6		805		–		–	–	–		–		–
456		15		806		–		–	–	–		–		–
457	B1W1V1	A	0	652		-20	–	0	0	7%0	–	0	–	1
458		0	A	653			–				–		–	
459		6		654			–				–		–	
460		15		655			–				–		–	

1	7	13	19	25	31	37	43	49	55	61	67	75 76
QN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		V
C.A.F.	B.P.(1)	B.P.(2)										

COEFFICIENTS: αA : -4, 0, 2, 4, 6, 8, 10, 15, 20 → IDPVAR(1) | IDPVAR(2) | NDV

α or β SCHEDULES

βA : -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES Se	Sc	Sa	Sr	Γw	ic	iw	CND POS	WNG POS
RN2461	B1W1V1	A	0	647 0	1	-10	-	0	0	1°40'	-	0	-	1
462		0	A	643 0			-				-		-	
463		6		646 0			-				-		-	
464		15		649 0			-				-		-	
465		A	0	636 0		0	-				-		-	
466		0	A	637 0			-				-		-	
467		6		638 0			-				-		-	
468		15		639 0			-				-		-	
469		A	0	640 0		10	-				-		-	
470		0	A	641 0			-				-		-	
471		6		642 0			-				-		-	
472		15		643 0			-				-		-	
473		A	0	648 0		20	-				-		-	
474		0	A	649 0			-				-		-	
475		6		650 0			-				-		-	
476		15		651 0			-				-		-	
477		A	0	656 0		30	-				-		-	
478		0	A	652 0			-				-		-	
479		6		653 0			-				-		-	
480		15		654 0			-				-		-	

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		13
C.A.F.	BP(1)	BP(3)								IDPVAR(1)	IDPVAR(2)	NDV

COEFFICIENTS: α_A = -4, 0, 2, 4, 6, 8, 10, 15, 20

α or β SCHEDULES

β_A = -6, -3, 0, 3, 6

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TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES Se	Sc	Sa	Sr	Γw	ic	iw	CNO POS	WING POS
RN2481	BIWIVI	A	0	765 0	1	0	–	10	0	7°40'	–	0	–	1
482		0	A	766 0			–				–		–	
483		6	↓	767 0			–				–		–	
484		15	↓	768 0			–	↓			–		–	
485		A	0	777 0			–	20			–		–	
486		0	A	778 0			–				–		–	
487		6	↓	779 0			–				–		–	
488		15	↓	780 0		↓	–	↓			–		–	
489		A	0	761 0		-10	–	10			–		–	
490		0	A	762 0			–				–		–	
491		6	↓	763 0			–				–		–	
492		15	↓	764 0		↓	–	↓			–		–	
493		A	0	781 0		-10	–	20			–		–	
494		0	A	782 0			–				–		–	
495		6	↓	783 0			–				–		–	
496		15	↓	784 0		↓	–	↓			–		–	
497		A	0	769 0		10	–	10			–		–	
498		0	A	770 0			–				–		–	
499		6	↓	771 0			–				–		–	
500		15	↓	772 0		↓	–	↓	↓	↓	–	↓	–	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		13
C.A.E.	BPCLW	BPCB										

COEFFICIENTS: → IDPVAR(1) | IDPVAR(2) | NDV

α or β SCHEDULES

αA = -4, 0, 2, 4, 6, 8, 10, 15, 20

βA = -6, -3, 0, 3, 6

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TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0,4	NO. of RUNS	PARAMETRIC VALUES δ_e	δ_c	δ_a	δ_r	Γ_W	i_c	i_W	CND POS	WAB POS
RN2501	B1W1V1	A	0	724	1	10	-	20	0	7°40'	-	0	-	1
502		0	A	724			-				-		-	
503		6		725			-				-		-	
504		15		726			-				-		-	
505		0		785		0	-	0	-5		-		-	
506		6		786			-				-		-	
507		15		787			-				-		-	
508		0		788			-		-10		-		-	
509		6		789			-				-		-	
510		15		790			-				-		-	
511	B1C2F1W1V1	0		701			0		-5		3		1	
512		6		702										
513		15		703										
514		0		710					-10					
515		6		711										
516		15		712										
517		A	0	561					0	15°				
518		0	A	562										
519		6		563										
520		15		564										

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		
CAF	BPC(1)	BPC(3)								IDPVAR(1)	IDPVAR(2)	NDV

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

α or β SCHEDULES $\beta A = -6, -3, 0, 3, 6$

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TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES δ_e	δ_c	δ_a	δ_r	Γ_N	i_c	i_N	CNO POS	WING POS
RN2521	B1C2F1W1V1	A	0	563	1	0	0	0	0	15	3	0	2	1
522	↓	0	A	564	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
523		6	↓	565										
524	↓	15	↓	566									↓	
525	B1C2F1W1V2D1	A	0	567									1	
526	↓	0	A	568									↓	
527		6	↓	569										
528		15	↓	570										
529		A	0	571									2	
530		0	A	572									↓	
531		6	↓	573								↓		
532	↓	15	↓	574										
533	B1C2F1W2D1	A	0	575								3	1	
534	↓	0	A	576								↓	↓	
535		6	↓	577										
536		15	↓	578										
537		A	0	579									2	
538		0	A	580									↓	
539		6	↓	581										
540	↓	15	↓	582	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		
CAF	BP(1)	RC(3)										

IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS: α_A = -4, 0, 2, 4, 6, 8, 10, 15, 20

α or β SCHEDULES

β_A = -6, -3, 0, 3, 6

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TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER 0.4	NO. of RUNS	PARAMETRIC VALUES δ_e	δ_c	δ_a	δ_r	Γ_w	i_c	i_N	CNO POS	WNG POS
RN2541	B1C2F1W1V1	A	0	541	1	0	10	0	0	7°40'	3	0	1	1
542		0	A	542										
543		6	↓	543			↓							
544		15	↓	544										
545		A	0	545			20							
546		0	A	546										
547		6	↓	547									↓	
548	↓	15	↓	548										
549	B1C2F2W1V1	A	0	631									2	
550		0	A	632										
551		6	↓	633					↓				↓	
552	↓	15	↓	634			↓							
553	B1C2F1W1V2	A	0	826			0		−				1	
554		0	A	827					−					
555		6	↓	828					−					
556	↓	15	↓	829					−					
557	B1C2F1W1V1	A	0	551					0					
558		0	A	552										
559		6	↓	553					↓					
560	↓	15	↓	554			↓							

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		
C.A.F.	SC.(.)..	DP(.)..								IDPVAR(1)	IDPVAR(2)	NDV

COEFFICIENTS: α_A = -4, 0, 2, 4, 6, 8, 10, 15, 20

α or β SCHEDULES

β_A = -6, -3, 0, 3, 6

NASA-MSFC-MAF

TEST NSRDC-3110 DATASET COLLATION SHEET

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	RUN NUMBER	NO. of RUNS	PARAMETRIC VALUES δ_e	δ_c	δ_a	δ_r	Γ_W	i_c	i_N	CNO DES	WING DES
RN2561	B1C2F1W1V1D2	A	0	841 0	1	0	0	0	0	7°40'	3	0	1	1
562	↓	0	A	843 0	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
563		6	↓	844 0										
564		15	↓	856 0										
565	B1C3F3W1V1	A	0	839 0										
566	↓	0	A	840 0										
567		6	↓	841 0										
568		15	↓	842 0										
569	B1C2F1W1V1D3	A	0	852 0										
570	↓	0	A	853 0										
571		6	↓	854 0										
572		15	↓	855 0										
573	B2C2F1W1V1	A	0	857 0										
574	↓	0	A	858 0										
575		6	↓	859 0										
576		15	↓	860 0										

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CRL	CYN	CY	CL	CD	L/D	CAB	MACH		
C.A.F. .	B.P.(1).	BP(3).	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. .

→ IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS:
α or β SCHEDULES

α_A : -4, 0, 2, 4, 6, 8, 10, 15, 20

β_A : -6, -3, 0, 3, 6

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TEST FACILITY DESCRIPTION

The test program was conducted in the NSRDC 7 x 10-foot transonic wind tunnel, which is a closed-loop, continuous flow tunnel with a Mach number range from M = 0.30 to M = 1.20 at simulated altitudes from sea level to 40,000 feet. Reynolds number can be varied between 1×10^6 and 3×10^6 per foot by adjusting the settling chamber total pressure.

TABLE I. SADSAC NOMENCLATURE OF AERODYNAMIC COEFFICIENTS

COEFFICIENT	COEFFICIENT NAME	SADSAC NOMENCLATURE		
		BODY AXIS	STABILITY AXIS	WIND AXIS
C_A	Total Axial Force	CA	-	-
C_{AB}	Base Axial Force	CAB	--	-
C_{AF}	Forebody Axial Force	CAF	-	-
C_D	Total Drag Force	-	CD	CDTOTL
C_{DB}	Base Drag Force	-	CDB	CDBASE
C_{DF}	Forebody Drag Force	-	CDF	CDFORE
C_L	Lift Force	-	CL	CL
C_N	Normal Force	CN	-	-
C_Y	Side Force	CY	CY	CC
C_ℓ	Rolling Moment	CBL	CSL	CWL
C_m	Pitching Moment	CLM	CLM	CPM
C_n	Yawing Moment	CYN	CLN	CLN
L/D	Lift-To-Drag Force Ratio	-	L/D	CL/CD
L/D	Lift-To-Forebody Drag Force Ratio	-	L/DF	CL/CDF
N/A	Normal-To-Axial Force Ratio	N/A	-	-
N/A	Normal-To-Forebody Axial Force Ratio	CN/CAF	-	-

TABLE II.

TEST CONDITIONS
TEST NSRDC 3110

MACH NUMBER	REYNOLDS NUMBER per unit length	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.38	2.69×10^6	1.35	

BALANCE UTILIZED: TSB-24

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	1500 lf	7.5 lf	0.0290
SF	500 lf	2.5 lf	0.0097
AF	100 lf	0.5 lf	0.0020
PM	1850 in lf	0.25 in lf	0.0009
YM	625 in lf	3.13 in lf	0.0003
RM	760 in lf	3.75 in lf	0.0004

COMMENTS:

DATA REDUCTION

This section includes a description of the data reduction accomplished by NSRDC and by SADSAC

For SADSAC

A six-component strain gauge balance was used to measure the force and moment data for this test (see Figure 1 for axis system orientation); four base pressures were also measured but only two were used to calculate the base axial force coefficient (CAB). Reference data utilized to reduce the measured data to coefficient form are listed below:

$$S_{ref} = \text{Wing W1 planform area} = 1.355 \text{ ft}^2$$

$$\ell_{ref} = b_{ref} = \text{Body B1 length} = 41.436 \text{ in}$$

The moment reference point (MRP) for all data in which B1 was tested is 31.14 inches aft of the fuselage nose, on the lateral centerline and 0.225 inch above the vertical centerline of the model. The MRP for all data in which B2 was tested is 26.64 inches aft of the nose, on the lateral centerline, and 0.225 inch above the model vertical centerline.

Data submitted to SADSAC were CN, CA, CLM, CBL, CYN, CY, CL, CD, L/D, CAB, CAF, BP(1), and BP(3); BP(1) and BP(3) are base pressure coefficients applicable to base pressure tubes 1 and 3 (see Figure 4). The base axial force coefficient (CAB) was calculated as listed below:

$$CAB = BP(1)\,[A1/S_{ref}] + [BP(1) - BP(3)]\,[A2/S_{ref}] + BP(3)\,[A3/S_{ref}]$$

A1 = total area of 10 nozzles at the throats = 0.0121 ft^2

A2 = total area of 10 nozzles at the nozzle exits minus the total throat area (A1)

A3 = total base area minus A1 and A2

A3 = 0.1312 ft^2 for high wing

A3 = 0.1372 ft^2 for low wing

By SADSAC

A request for incremental effects of control deflection required additional processing of the basic data by SADSAC. Coefficient data was obtained at even values of angle of attack (α = -2, 0, 4, 6, 8 and 10°) and then used to determine the difference between the datasets, i.e. $(CN)_{\delta_e=10} - (CN)_{\delta_e=0}$. Incremental data were obtained for the following coefficients: CL, CLM, CD, L/D, CYN, CBL, and CY.

SUMMARY DATA PLOT INDEX

CONFIGURATION VARIABLE	CONFIGURATION CONDITIONS FIXED							PLOTTED COEFFICIENT SCHEDULE	PAGES
	WNDSIZ	INCIDW	DIHDRL	WNGPOS	CNDSIZ	INCIDC	CNDPOS		
Canard Size	W1V1	0^{o}	7.66^{o}	1	-	3^{o}	1	A	1-8
Canard Size	W1V1	0^{o}	7.66^{o}	1	-	3^{o}	1	B	9-11
Canard Position	W1V1	0^{o}	7.66^{o}	1	C2	3^{o}	-	A	12-19
Canard Position	W1V1	0^{o}	7.66^{o}	1	C2	3^{o}	-	B	20-22
Canard Incidence	W1V1	0^{o}	7.66^{o}	1	C2	-	1	A	23-30
Canard Incidence	W1V1	0^{o}	7.66^{o}	1	C2	-	1	B	31-33
Canard Size	W1V1	0^{o}	7.66^{o}	1	-	3^{o}	2	A	34-41
Canard Size	W1V1	0^{o}	7.66^{o}	1	-	3^{o}	2	B	42-44
Canard Position	W1V1	0^{o}	7.66^{o}	2	C2	3^{o}	-	A	45-52
Canard Position	W1V1	0^{o}	7.66^{o}	2	C2	3^{o}	-	B	53-55
Canard Incidence	W1V1	0^{o}	7.66^{o}	1	C2	-	2	A	56-63
Canard Incidence	W1V1	0^{o}	7.66^{o}	1	C2	-	2	B	64-66
Canard Size	W1V1	3^{o}	7.66^{o}	1	-	3^{o}	1	A	67-74
Canard Size	W1V1	3^{o}	7.66^{o}	1	-	3^{o}	1	B	75-77
Canard Position	W1V1	3^{o}	7.66^{o}	1	C2	3^{o}	-	A	78-85
Canard Position	W1V1	3^{o}	7.66^{o}	1	C2	3^{o}	-	B	86-88
Canard Incidence	W1V1	3^{o}	7.66^{o}	1	C2	-	1	A	89-96
Canard Incidence	W1V1	3^{o}	7.66^{o}	1	C2	-	1	B	97-99

SUMMARY DATA PLOT INDEX
(CONTINUED)

CONFIGURATION VARIABLE	CONFIGURATION CONDITIONS FIXED							PLOTTED COEFFICIENT SCHEDULE	PAGES
	WNDSIZ	INCIDW	DIHDRL	WNGPOS	CNDSIZ	INCIDC	CNDPOS		
Canard Size	W1V1	3°	7.66°	1	-	3°	2	A	100-107
Canard Size	W1V1	3°	7.66°	1	-	3°	2	B	108-110
Canard Position	W1V1	3°	7.66°	2	C2	3°	-	A	111-118
Canard Position	W1V1	3°	7.66°	2	C2	3°	-	B	119-121
Canard Incidence	W1V1	3°	7.66°	2	C2	-	2	A	122-129
Canard Incidence	W1V1	3°	7.66°	2	C2	-	2	B	130-132
Canard Size	W1V1	0°	7.66°	2	-	3°	1	A	133-140
Canard Size	W1V1	0°	7.66°	2	-	3°	1	B	141-143
Canard Incidence	W1V1	0°	7.66°	2	C2	-	1	A	144-151
Canard Incidence	W1V1	0°	7.66°	2	C2	-	1	B	152-154
Canard Size	W1V1	0°	7.66°	2	C2	3°	1	A	155-162
Canard Size	W1V1	0°	7.66°	2	C2	3°	1	B	163-165
Canard Incidence	W1V1	0°	7.66°	2	C2	-	1	A	166-173
Canard Incidence	W1V1	0°	7.66°	2	C2	-	1	B	174-176
Canard Size	W1V1	3°	7.66°	2	-	3°	1	A	177-184
Canard Size	W1V1	3°	7.66°	2	-	3°	1	B	185-187

SUMMARY DATA PLOT INDEX
(CONTINUED)

CONFIGURATION VARIABLE	CONFIGURATION CONDITIONS FIXED							PLOTTED COEFFICIENT SCHEDULE	PAGES
	WNDSIZ	INCIDW	DIHDRL	WNGPOS	CNDSIZ	INCIDC	CNDPOS		
Canard Incidence	W1V1	3°	7.66°	2	C2	3°	1	A	188-195
Canard Incidence	W1V1	3°	7.66°	2	C2	3°	1	B	196-198
Canard Size	W1	3°	7.66°	2	-	3°	2	A	199-206
Canard Size	W1	3°	7.66°	2	-	3°	2	B	207-209
Canard Incidence	W1	3°	7.66°	2	C2	-	2	A	210-217
Canard Incidence	W1	3°	7.66°	2	C2	-	2	B	218-220
Canard Size	W1	0°	7.66°	1	-	15°	1	A	221-228
Canard Size	W1	0°	7.66°	1	-	15°	1	B	229-231
Canard Position	W1	0°	7.66°	1	C2	15°	-	A	232-239
Canard Position	W1	0°	7.66°	1	C2	15°	-	B	240-242
Canard Size	W1	0°	7.66°	1	-	15°	2	A	243-250
Canard Size	W1	0°	7.66°	1	-	15°	2	B	251-253
Canard Position	W1	0°	7.66°	2	C2	15°	-	A	254-261
Canard Position	W1	0°	7.66°	2	C2	15°	-	B	262-264
Canard Size	W1	3°	7.66°	1	-	15°	1	A	265-272
Canard Size	W1	3°	7.66°	1	-	15°	1	B	273-275
Canard Position	W1	3°	7.66°	1	C2	15°	-	A	276-283
Canard Position	W1	3°	7.66°	1	C2	15°	-	B	284-286

SUMMARY DATA PLOT INDEX
(CONTINUED)

CONFIGURATION VARIABLE	CONFIGURATION CONDITIONS FIXED							PLOTTED COEFFICIENT SCHEDULE	PAGES
	WNDSIZ	INCIDW	DIHDRL	WNGPOS	CNDSIZ	INCIDC	CNDPOS		
Canard Size	W1	3°	7.66°	1	-	15°	-	A	287-294
Canard Size	W1	3°	7.66°	1	-	15°	-	B	295-297
Canard Position	W1	3°	7.66°	1	C2	15°	-	A	298-305
Canard Position	W1	3°	7.66°	1	C2	15°	-	B	306-308
Canard Size	W1	3°	7.66°	2	-	15°	1 & 2	A & B	309-352
Canard Position	W1	0° & 3°	7.66°	1 & 2	C1	3° & 15°	1 & 2	A & B	353-440
Canard Incidence	W1	0° & 3°	7.66°	1 & 2	C1	-	1 & 2	A & B	441-528
Wing Size	-	0° & 3°	7.66°	1	C2	3° & 15°	1 & 2	A & B	529-616
Wing Size	-	0° & 3°	7.66°	2	C2	3° & 15°	1 & 2	A & B	617-704
Wing Size	-	0° & 3°	7.66°	1	C1	3° & 15°	1 & 2	A & B	705-792
Wing Size	-	0° & 3°	7.66°	2	C1	3° & 15°	1 & 2	A & B	793-880
Wing Location	W1V1 W1V2 W2 W1	0°	7.66°	-	C2	3° & 15°	1 & 2	A & B	881-1001
Wing Location	W1V1 W1V2 W2 W1	3°	7.66°	-	C2	3° & 15°	1 & 2	A & B	1002-1133

SUMMARY DATA PLOT INDEX
(CONTINUED)

CONFIGURATION VARIABLE	CONFIGURATION CONDITIONS FIXED							PLOTTED COEFFICIENT SCHEDULE	PAGES
	WNDSIZ	INCIDW	DIHDRL	WNGPOS	CNDSIZ	INCIDC	CNDPOS		
Wing Location	W1V1 W1V2	0°	7.66°	-	C1	3° & 15°	1 & 2	A & B	1134-1221
Wing Location	W1V1 W1V2	3°	7.66°	-	C1	3° & 15°	1 & 2	A & B	1222-1309
Wing Incidence	W1V1	-	7.66°	1 & 2	C1 & C2	3° & 15°	1 & 2	A & B	1310-1485
Wing Incidence	W1V2	-	7.66°	1 & 2	C1 & C2	3° & 15°	1 & 2	A & B	1486-1661
Wing Incidence	W2	-	7.66°	1 & 2	C2	3° & 15°	1 & 2	A & B	1662-1738
Wing Dihedral	W1V1 W1V2 W2	0° & 3°	-	1	C2	3°	1 & 2	A & B	1739-1804
Elevon Deflection	W1V1	0°	7.66°	1	C2 & Off	3°	1	A & B	1805-1848
Wing Tip Rudder Deflection	W1V1	0°	7.66°	1	C2 & Off	3°	1	A & B	1849-1854
Dorsal Fin	W1V1 W1V2	0°	7.66°	1	C2	3°	1	A & B	1855-1876
Canard Flap Deflection and Size	W1V1 & Off	0°	7.66°	1	C2	3°	1	A & B	1877-1898
Canard Effectiveness	W1V1 & Off	0°	7.66°	1	C2	3°	1	A & B	1899-1964
Aileron Effectiveness	W1V1	0°	7.66°	1	C2 & Off	3°	1	A & B	1976-2074

SUMMARY DATA PLOT INDEX
(CONTINUED)

CONFIGURATION VARIABLE	CONFIGURATION CONDITIONS FIXED							PLOTTED COEFFICIENT SCHEDULE	PAGES
	WNDSIZ	INCIDW	DINDRL	WNGPOS	CNDSIZ	INCIDC	CNDPOS		
Elevon Effectiveness	W1V1	0°	7.66°	1	C2 & Off	3°	1	C	2075-2090
Rudder Effectiveness	W1V1	0°	7.66°	1	C2 & Off	3°	1	D	2091-2102
Canard Effectiveness	W1V1	0°	7.66°	1	C2	3°	1	E	2103-2126
Aileron Effectiveness	W1V1	0°	7.66°	1	C2 & Off	3°	1	F	2127-2180
Directional Stability At High Alpha	W1V1 W1V2 W2	0° & 3°	7.66°	1 & 2	C1 & C2	3° & 15°	1 & 2	G	1281-2207

PLOTTED COEFFICIENT SCHEDULE:

(A) CN, CA, CLM, CL, CD, L/D & CAB vs. ALPHA
CLM vs. CL

(B) CBL, CYN & CY vs. BETA

(C) DCL, DCLM, DCD & DL/D vs. ELEVTR

(D) DCYN, DCBL, DCY, DCD, DCLM, & DL/D vs. RUDDER

(E) DCL, DCLM, DCD & DL/D vs. CANARD

(F) DCYN, DCBL, DCY, DCD, DCLM & DL/D vs. AILRON

(G) CBL, CYN & CY vs. ALPHA

Notes:

1. Positive directions of force coefficients moment coefficients, and angles are indicated by arrows.

2. For clarity, origins of wind and stability axes have been displaced from the center of gravity.

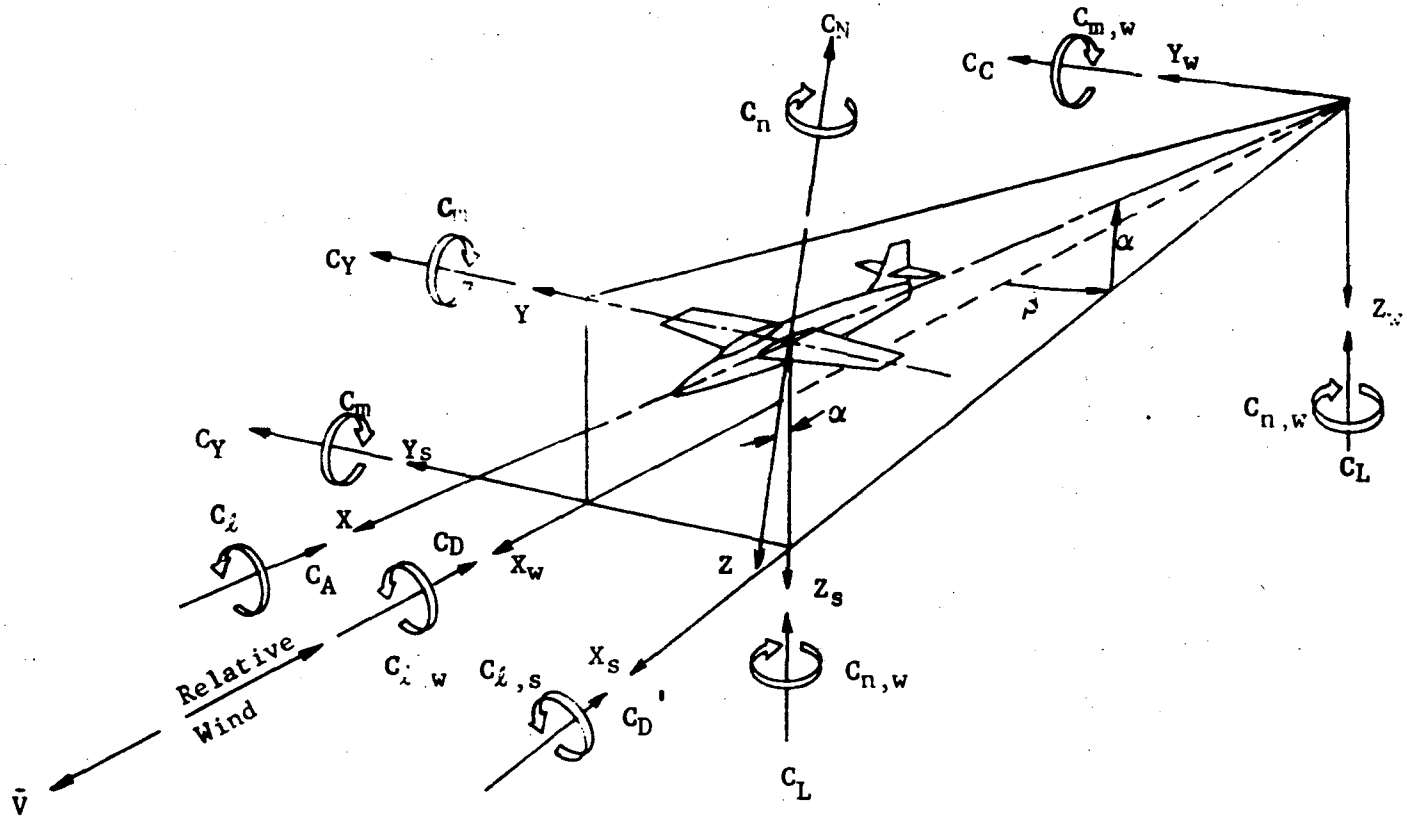

Figure 1. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

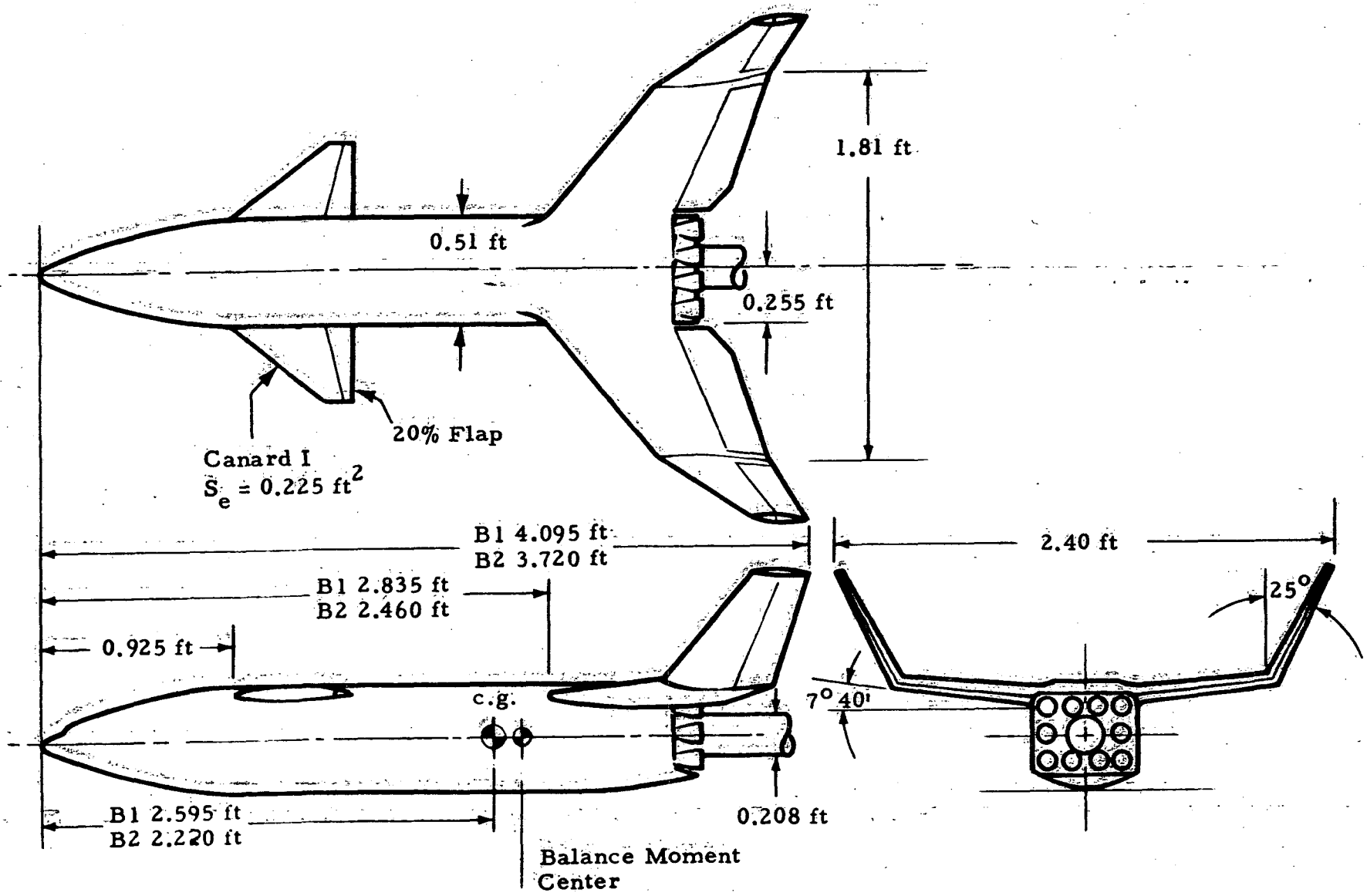

Fig. 2. General Arrangement of a Typical High Wing – High Canard Configuration

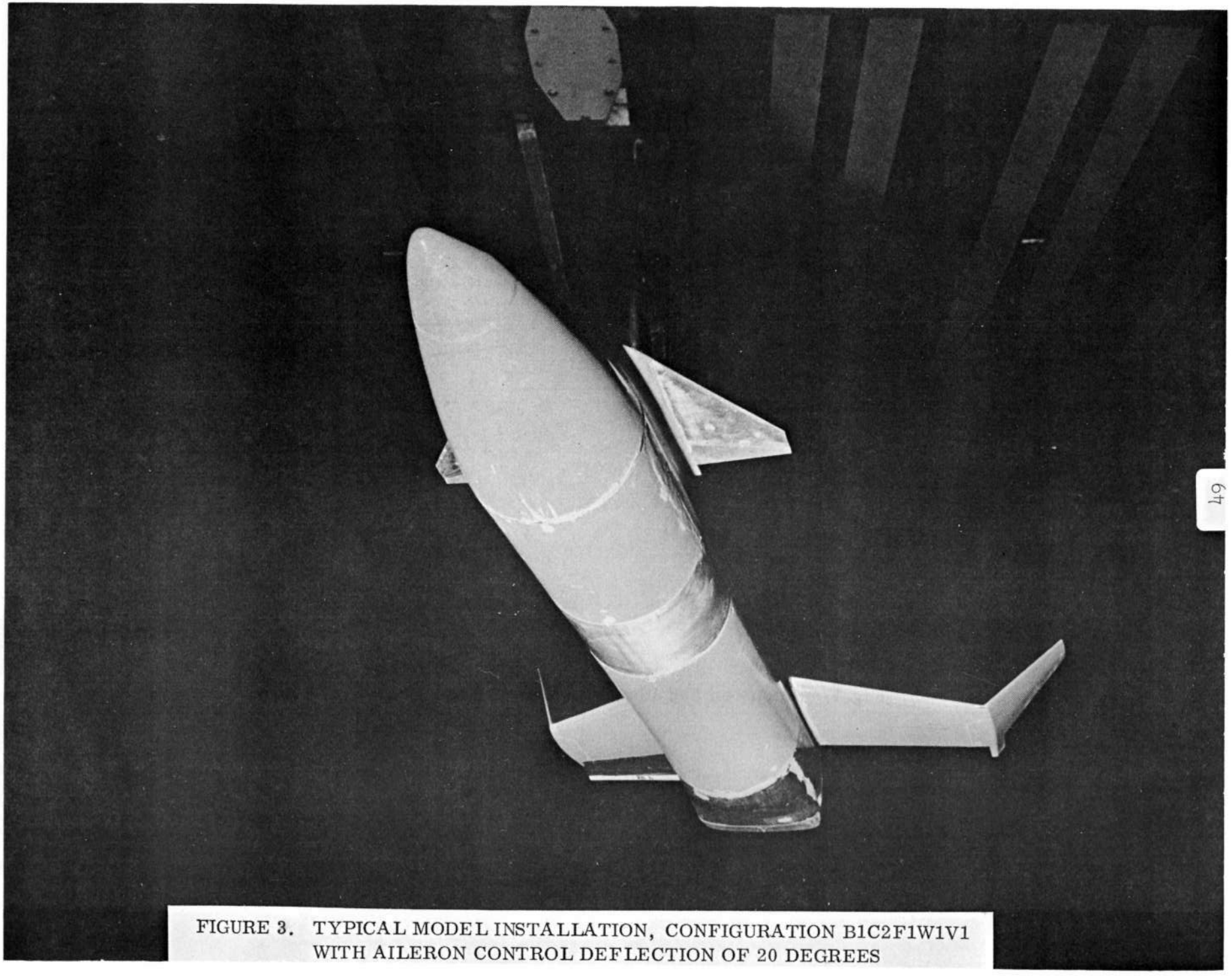

FIGURE 3. TYPICAL MODEL INSTALLATION, CONFIGURATION B1C2F1W1V1 WITH AILERON CONTROL DEFLECTION OF 20 DEGREES

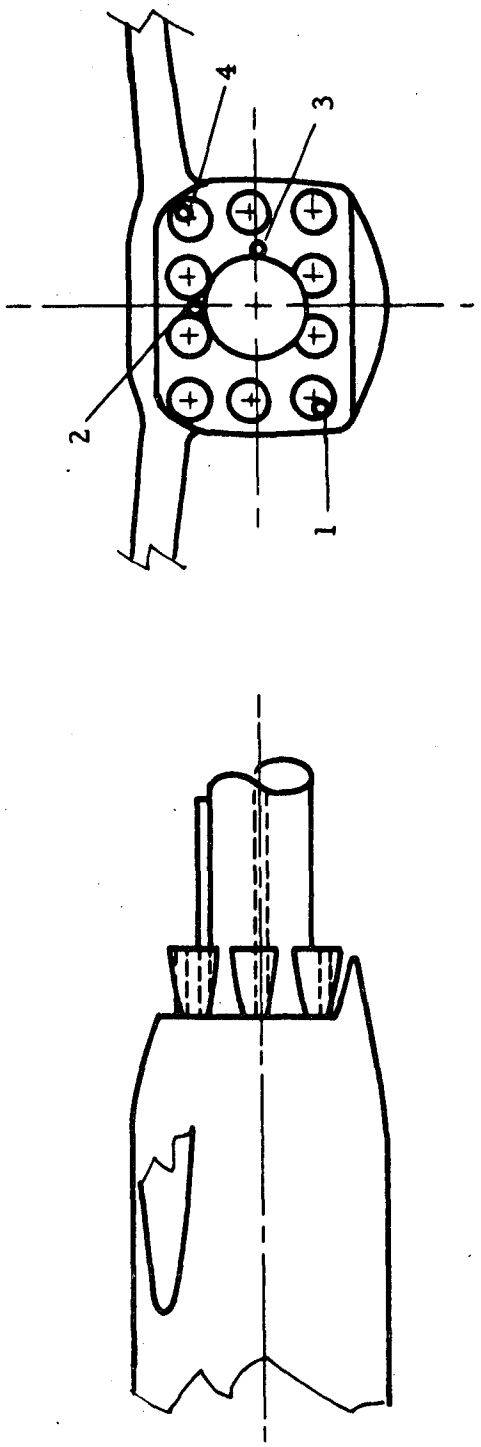

Fig. 4 - Location and Identification of Base Pressure Tubes

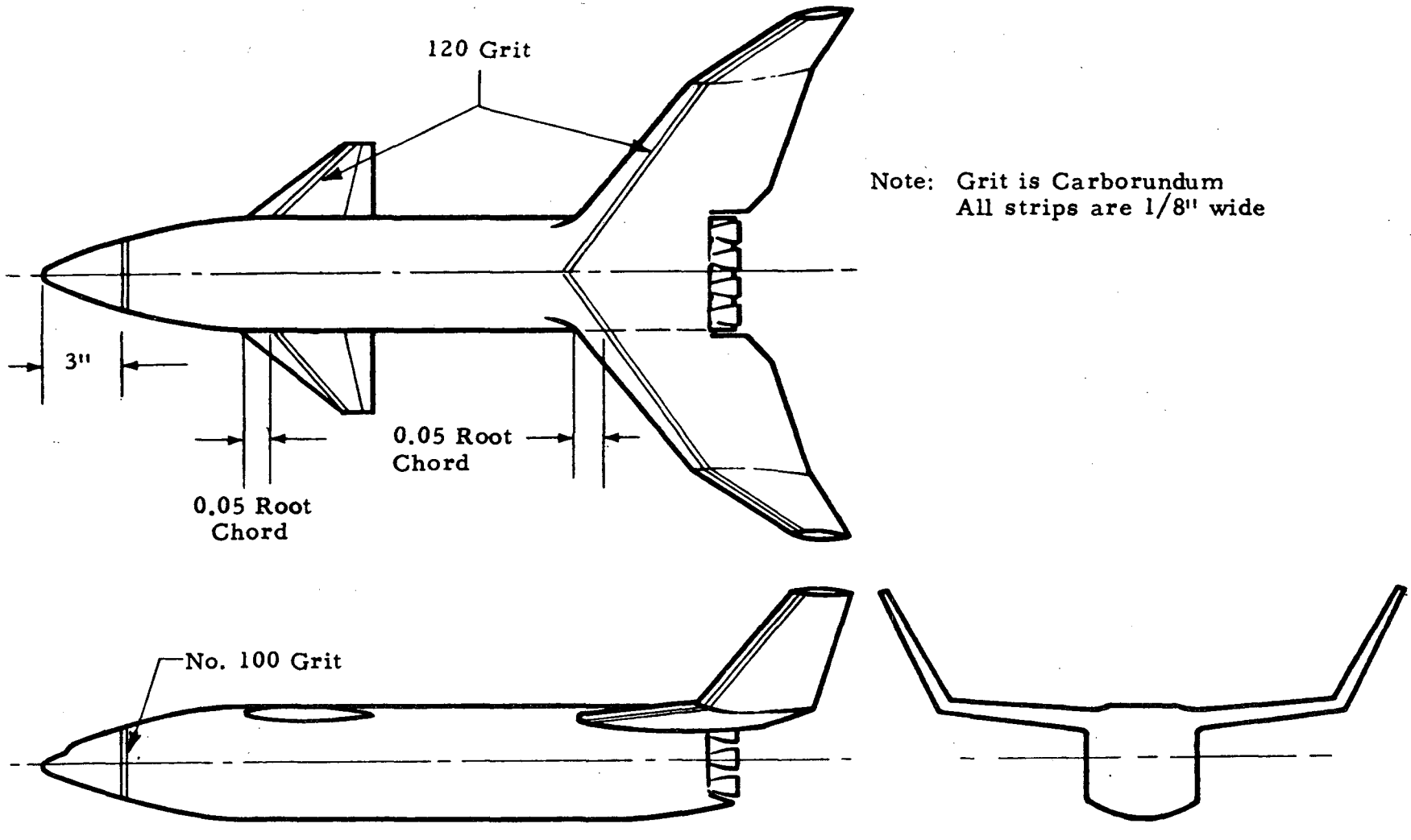

Fig. 5. - Typical Transition Grit Installation on Body, Wing and Canard

TABLE III.

MODEL COMPONENT: BODY - B1

GENERAL DESCRIPTION: Baseline MDAC booster body 256-19A-X
X = total length is 229 vs 241.7 for 19A

DRAWING NUMBER: NSRDC A15201I-A

DIMENSIONS:		FULL-SCALE	MODEL SCALE
Length		229 ft	3.453 ft
Max. Width		34 ft	0.51 ft
Max. Depth		34 ft	0.51 ft
Fineness Ratio			
Area			
Max. Cross-Sectional		907.92 ft^2	0.204 ft^2
Planform		—	—
Wetted		—	—
Base	high wing	866.67 ft^2	0.195 ft^2
	Low wing	893.21 ft^2	0.201 ft^2

TABLE IV.

MODEL COMPONENT: BODY - B2

GENERAL DESCRIPTION: Baseline MDAC boattail body, 256-14

DRAWING NUMBER: NSRDC A152011

DIMENSIONS:		FULL-SCALE	MODEL SCALE
Length		204.08 ft	3.06 ft
Max. Width		34 ft	0.51 ft
Max. Depth		34 ft	0.51 ft
Fineness Ratio		6	6
Area			
Max. Cross-Sectional		907.92 ft^2	0.204 ft^2
Planform		—	—
Wetted		—	—
Base :	high wing	866.67 ft^2	0.195 ft^2
	Low wing	893.21 ft^2	0.201 ft^2

TABLE V.

MODEL COMPONENT: W1

GENERAL DESCRIPTION: Baseline booster wing 256-14

DRAWING NUMBER: NSRDC A152024-1

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	6020 ft²	1.355 ft²
Wetted	—	—
Span (equivalent)	120.67 ft.	1.81 ft
Aspect Ratio	2.42	2.12
Rate of Taper	—	—
Taper Ratio	.547	.547
Diehedral Angle, degrees	7°40', 15°	7°40', 15°
Incidence Angle, degrees	0°, 3°	0°, 3°
Aerodynamic Twist, degrees	—	—
Toe-In Angle	0°	0°
Cant Angle	—	—
Sweep Back Angles, degrees		
Leading Edge	40°	40°
Trailing Edge	19°31'	19°31'
0.25 Element Line	—	—
Chords:		
Root (Wing Sta. 0.0)	64.55 ft	.969 ft
Tip, (equivalent)	35.4 ft	.53 ft
MAC	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—
B.L. of .25 MAC	—	—
Airfoil Section		
Root	64A010	64A010
Tip	64A010	64A010
EXPOSED DATA		
Area	3960 ft²	.891 ft²
Span, (equivalent)	86.8 ft	1.30 ft.
Aspect Ratio	1.89	1.89
Taper Ratio	.627	.627
Chords		
Root	56.4 ft	.845 ft
Tip	35.4	.53 ft
MAC	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—
B.L. of .25 MAC	—	—

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TABLE VI.

MODEL COMPONENT: W2

GENERAL DESCRIPTION: A 2-tornado high aspect ratio swept wing

DRAWING NUMBER: NSRDC A-15 2024-5

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	5100 ft²	1.148 ft²
Wetted		
Span (equivalent)	152.5 ft	229 ft
Aspect Ratio	.455	.455
Rate of Taper		
Taper Ratio		
Diehedral Angle, degrees	7°40', 15°	7°40', 15°
Incidence Angle, degrees	0°, 3°	0°, 3°
Aerodynamic Twist, degrees	0	0
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	40°	40°
Trailing Edge	28.5°	28.5°
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)	45.9 ft	0.689 ft
Tip, (equivalent)	20.9 ft	0.314 ft
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root	64A010	64A010
Tip	64A010	64A010
EXPOSED DATA		
Area	3500 ft²	0.733 ft²
Span, (equivalent)	118.2 ft	1.775 ft
Aspect Ratio	4	4
Taper Ratio	.547	.547
Chords		
Root	38.2 ft	0.574 ft
Tip	20.9 ft	0.314 ft
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		

NOT REPRODUCIBLE

TABLE VII. VII

MODEL COMPONENT: VI

GENERAL DESCRIPTION: Booster wing tip vertical fin

(Dimensions given are for each tip)

DRAWING NUMBER: NSRDC A152027-1,4

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	1010 ft²	.226 ft²
Wetted	—	—
Semi-Span (equivalent)	38.30 ft	.582 ft
Aspect Ratio	1.5	1.5
Rate of Taper	—	—
Taper Ratio	.467	.467
Diehedral Angle, degrees	29°	29°
Incidence Angle, degrees	3°	3°
Aerodynamic Twist, degrees	0	0
Toe-In Angle	0	0
Cant Angle	0	0
Sweep Back Angles, degrees		
Leading Edge	40°	40°
Trailing Edge	19°31'	19°31'
0.25 Element Line	—	—
Chords:		
Root (Wing Sta. 0.0)	35.35 ft	.530 ft
Tip, (equivalent)	16.50 ft	.247 ft
MAC	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—
B.L. of .25 MAC	—	—
Airfoil Section		
Root	64A010	64A010
Tip	64A009	64A009
EXPOSED DATA		
Area	—	—
Span, (equivalent)	—	—
Aspect Ratio	—	—
Taper Ratio	—	—
Chords		
Root	—	—
Tip	—	—
MAC	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—
B.L. of .25 MAC	—	—

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TABLE VIII.

MODEL COMPONENT: V2

GENERAL DESCRIPTION: Powder wing tip extensions

(Dimensions are for one tip)

DRAWING NUMBER: NSRDC A 152030-1

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	671 ft²	0.15 ft²
Wetted		
Span (equivalent)	21.9 ft	.329 ft
Aspect Ratio	0.72	0.72
Rate of Taper		
Taper Ratio	0.70	0.70
Diehedral Angle, degrees	7°40' 15"	7°40' 15"
Incidence Angle, degrees	0° 3'	0° 3'
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	40°	40°
Trailing Edge	19°31'	19°31'
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)	35.9 ft	.538 ft
Tip, (equivalent)	25.2 ft.	.378 ft
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root	64A010	64A010
Tip	64A010	64A010
EXPOSED DATA		
Area		
Span, (equivalent)		
Aspect Ratio		
Taper Ratio		
Chords		
Root		
Tip		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		

NOT REPRODUCIBLE

TABLE IX.

MODEL COMPONENT: D1

GENERAL DESCRIPTION: Booster Large Dorsal fin

DRAWING NUMBER: NSDOC A152016-1

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	1996 ft^2	0.149 ft^2
Span (equivalent)	55.4 ft	.831 ft
Inb'd equivalent chord	48.8 ft	.731 ft
Outb'd equivalent chord	22.2 ft	.333 ft
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	.30	.30
At Outb'd equiv. chord	.30	.30
Sweep Back Angles, degrees		
Leading Edge	55°	55°
Tailing Edge	43.5°	43.5°
Hingeline	—	—
Area Moment (Normal to hinge line)	—	—

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TABLE X.

MODEL COMPONENT: D2

GENERAL DESCRIPTION: Boeabee small Dorsal Fin

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	1450 ft.^{2}	.326 ft.^{2}
Span (equivalent)	36.1 ft.	.541 ft.
Inb'd equivalent chord	48.8 ft.	.731 ft.
Outb'd equivalent chord	31.5 ft.	.473 ft.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	.30	.30
At Outb'd equiv. chord	.30	.30
Sweep Back Angles, degrees		
Leading Edge	55°	55°
Tailing Edge	43.5°	43.5°
Hingeline	—	—
Area Moment (Normal to hinge line)	—	—

TABLE XI.

MODEL COMPONENT: D3

GENERAL DESCRIPTION: Booster small Dorsal Fin

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	1360 ft.²	.306 ft.²
Span (equivalent)	33.3 ft.	.500 ft.
Inb'd equivalent chord	48.8 ft.	.731 ft.
Outb'd equivalent chord	32.8 ft.	.442 ft.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	.30	.30
At Outb'd equiv. chord	.30	.30
Sweep Back Angles, degrees		
Leading Edge	55°	55°
Tailing Edge	43.5°	43.5°
Hingeline	—	—
Area Moment (Normal to hinge line)	—	—

TABLE XII.

MODEL COMPONENT: C1

GENERAL DESCRIPTION: Body for large canard

DRAWING NUMBER: NSRDC A152018-5

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	2650 ft²	0.596 ft²
Wetted	—	—
Span (equivalent)	78.7 ft	1.18 ft
Aspect Ratio	2.34	2.34
Rate of Taper	—	—
Taper Ratio	.124	.124
Diehedral Angle, degrees	0	0
Incidence Angle, degrees	3°15'	3°15'
Aerodynamic Twist, degrees	0	0
Toe-In Angle	—	—
Cant Angle	—	—
Sweep Back Angles, degrees	—	—
Leading Edge	53°09'	53°08'
Trailing Edge	0	0
0.25 Element Line	—	—
Chords:	—	—
Root (Wing Sta. 0.0)	59.8 ft	.897 ft
Tip, (equivalent)	7.47 ft	.112 ft
MAC, inches	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—
Airfoil Section	—	—
Root	64A010	64A010
Tip	64A010	64A010
EXPOSED DATA		
Area	1000 ft²	0.225 ft²
Span, (equivalent)	44.7 ft	0.67 ft
Aspect Ratio	2	2
Taper Ratio	.2	.2
Chords	—	—
Root	37.3 ft	0.559 ft
Tip	7.47 ft	.112 ft
MAC	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—

NOT REPRODUCIBLE

TABLE XIII.

MODEL COMPONENT: C2

GENERAL DESCRIPTION: Body - small canard

DRAWING NUMBER: NSRDC A152018-5

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	2235 ft^2	0.503 ft^2
Wetted		
Span (equivalent)	72.6 ft	1.09 ft
Aspect Ratio	2.36	2.36
Rate of Taper		
Taper Ratio	.118	.118
Diehedral Angle, degrees	0	0
Incidence Angle, degrees	3°,15°	3° 15'
Aerodynamic Twist, degrees	0	0
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	53°	53°
Trailing Edge	0	0
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)	55. ft	.825 ft
Tip, (equivalent)	6.47 ft	.097 ft
MAC, inches		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
Airfoil Section		
Root	64A010	64A010
Tip	64A010	64A010
EXPOSED DATA		
Area	750 ft^2	0.169 ft^2
Span, (equivalent)	38.8 ft	0.581 ft
Aspect Ratio	2	2
Taper Ratio	0.2	0.2
Chords		
Root	32.2 ft	0.484 ft
Tip	6.46 ft	0.097 ft
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

TABLE XIV.

MODEL COMPONENT: C 3

GENERAL DESCRIPTION: C 2 with F1 portion removed.

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	1787 ft²	.4023 ft²
Wetted	—	—
Span (equivalent)	76.2 ft	1.09 ft.
Aspect Ratio	3.25	3.25
Rate of Taper	—	—
Taper Ratio	.118	.118
Diehedral Angle, degrees	0°	0°
Incidence Angle, degrees	3°	3°
Aerodynamic Twist, degrees	0°	0°
Toe-In Angle	—	—
Cant Angle	—	—
Sweep Back Angles, degrees		
Leading Edge	53°	53°
Trailing Edge	14°55'	14°55'
0.25 Element Line	—	—
Chords:		
Root (Wing Sta. 0.0)	44.0 ft.	.66 ft.
Tip, (equivalent)	5.17 ft.	.0776 ft.
MAC, inches	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—
Airfoil Section		
Root	64A010 with last 20% removed.	
Tip	64A010 with last 20% removed.	
EXPOSED DATA		
Area	600 ft²	.135 ft.²
Span, (equivalent)	38.8 ft	.581 ft.
Aspect Ratio	2.5	2.5
Taper Ratio	.20	.20
Chords		
Root	25.76 ft.	.384 ft.
Tip	5.17 ft.	.0776 ft.
MAC	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—

NOT REPRODUCIBLE

TABLE XV.

MODEL COMPONENT: F1 FOR CANARD C1

GENERAL DESCRIPTION: Rounded canard trailing edge control (20% chord - exposed area)

DRAWING NUMBER: NSRDC A1520171B

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	200 ft^2	0.045 ft^2
Span (equivalent)	44.7 ft	0.67 ft
Inb'd equivalent chord	7.46 ft	0.112 ft
Outb'd equivalent chord	1.495 ft	0.0224 ft
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2	0.2
At Outb'd equiv. chord	0.2	0.2
Sweep Back Angles, degrees		
Leading Edge	14°56'	14°56'
Tailing Edge	0	0
Hingeline	—	—
Area Moment (Normal to hinge line)	—	—

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TABLE XVI. XVI

MODEL COMPONENT: F1 FOR CANARD C2

GENERAL DESCRIPTION: Booster canard trailing edge flap (20% chord - exposed area)

DRAWING NUMBER:

DIMENSIONS:

	FULL-SCALE	MODEL SCALE
Area	150 ft²	0.0338 ft²
Span (equivalent)	38.8 ft	0581 ft
Inb'd equivalent chord	6.45 ft	0.0968 ft
Outb'd equivalent chord	1.295 ft	0.0194 ft
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2	0.2
At Outb'd equiv. chord	0.2	0.2
Sweep Back Angles, degrees		
Leading Edge	14°55'	14°55'
Tailing Edge	0	0
Hingeline	—	—
Area Moment (Normal to hinge line)	—	—

MODEL COMPONENT: F2 WITH CANARD C1

GENERAL DESCRIPTION: Booster canard trailing edge control (40% chord)

DRAWING NUMBER: NSRDC A152017,18

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	400 ft^2	.09 ft^2
Span (equivalent)	44.7 ft	0.67 ft
Inb'd equivalent chord	14.92 ft	0.224 ft
Outb'd equivalent chord	2.99 ft	0.0448 ft
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.4	0.4
At Outb'd equiv. chord	0.4	0.4
Sweep Back Angles, degrees		
Leading Edge	28°04'	28°04'
Tailing Edge	0	0
Hingeline	—	—
Area Moment (Normal to hinge line)	—	—

TABLE XVIII. XVIII

MODEL COMPONENT: F2 WITH CANARD C2

GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	300 ft²	0.0676 ft²
Span (equivalent)	38.8 ft	0.531 ft
Inb'd equivalent chord	12.9 ft	0.1936 ft
Outb'd equivalent chord	2.59 ft	0.0388 ft
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.4	0.4
At Outb'd equiv. chord	0.4	0.4
Sweep Back Angles, degrees		
Leading Edge	28°	28°
Tailing Edge	0	0
Hingeline	—	—
Area Moment (Normal to hinge line)	—	—

MODEL COMPONENT: F 3

GENERAL DESCRIPTION: Canard Flap. Consists of F2 for C2 with F1 portion removed.

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	150 ft.^{2}	0.0338 ft.^{2}
Span (equivalent)	38.8 ft.	0.581 ft.
Inb'd equivalent chord	6.45 ft	0.0968 ft.
Outb'd equivalent chord	2.54 ft.	0.0194 ft.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.333	0.333
At Outb'd equiv. chord	0.333	0.333
Sweep Back Angles, degrees		
Leading Edge	28°	28°
Tailing Edge	14° 55'	14° 55
Hingeline	—	—
Area Moment (Normal to hinge line)	—	—

NOMENCLATURE

(General)

SYMBOL	SADSAC SYMBOL	DEFINITION
α	ALPHA	angle of attack, angle between the projection of the wind X_w-axis on the body X, Z-plane and the body X-axis; degrees
β	BETA	sideslip angle, angle between the wind X_w-axis and the projection of this axis on the body X-Z-plane; degrees
ψ	PSI	yaw angle, angle of rotation about the body Z-axis, positive when the positive X-axis is rotated toward the positive Y-axis; degrees
ϕ	PHI	roll angle, angle of rotation about the body X-axis, positive when the positive Y-axis is rotated toward the positive Z-axis; degrees
ρ		air density; K_g/m^3, slugs/ft^3
a		speed of sound; m/sec, ft/sec
V		speed of vehicle relative to surrounding atmosphere; m/sec, ft/sec
q	Q(PSI) Q(PSF)	dynamic pressure; $1/2\rho V^2$, psi, psf
M	MACH	Mach number; V/a
RN/L	RN/L	Reynolds number per unit length; million/ft
p		static pressure; psi
P		total pressure; psi
C_p	CP	pressure coefficient; $(p-p_\infty)/q$

NOMENCLATURE (Continued)

Reference & C. G. Definitions

SYMBOL	SADSAC SYMBOL	DEFINITION
S		wing area; m^2, ft^2
S_{ref}	SREF	reference area; m^2, ft^2
$\bar{c}$		wing mean aerodynamic chord or reference chord; m, ft, in (see ℓ_{ref} or LREF)
ℓ_{ref}	LREF	reference length; m, ft, in.; (see $\bar{c}$)
b_{ref}	BREF	wing span or reference span; m, ft, in
A_b		base area; m^2, ft^2, in^2
c. g.		center of gravity
MRP	MRP	abbreviation for moment reference point
	XMRP	abbreviation for moment reference point on X-axis
	YMRP	abbreviation for moment reference point on Y-axis
	ZMRP	abbreviation for moment reference point on Z-axis

NOMENCLATURE (Continued)

Axis System General

SYMBOL	DEFINITION
F	force; F, lbs
M	moment; M, in-lb

Subscript	Definition
N	normal force
A	axial force
L	lift force
D	drag force
Y	force or moment about the Y axis
Z	moment about the Z axis
X	moment about the X axis
s	stability axis system
w	wind axis system
ref	reference conditions
∞	free stream conditions
t	total conditions
b	base

NOMENCLATURE (Continued)

Body Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
C_N	CN	normal force coefficient; F_N/qS
C_A	CA	axial force coefficient; F_A/qS
C_{A_f}	CAF	forebody axial force coefficient; $C_A - C_{A_b}$
C_m	CIM	pitching moment coefficient; $M_Y/qS\ \ell_{ref}$
C_y	CY	side force coefficient; F_Y/qS
C_n	CYN	yawing moment coefficient; $M_Z/qS\ b_{ref}$
C_ℓ	CBL	rolling moment coefficient, $M_X/qS\ b_{ref}$

NOMENCLATURE (Continued)

Stability Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
C_L	CL	lift force coefficient; F_L/qS
C_D	CD	drag force coefficient; F_D/qS
C_{D_b}	CDB	base drag coefficient
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_m	CLM	pitching moment coefficient; $M_{Y,s}/qS\ \ell_{ref}$
C_y	CY	side force coefficient; F_Y/qS
C_n	CLN	yawing moment coefficient; $M_{Z,s}/qS\ b_{ref}$
C_ℓ	CSL	rolling moment coefficient; $M_{X,s}/qS\ b_{ref}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

Surface Definitions

SYMBOL	SADSAC SYMBOL	DEFINITION
i_t	HORIZT	horizontal tail incidence; positive when trailing edge down; degrees
δ		symmetrical surface deflection angle; degrees; positive deflections are:
	AILRON	aileron - total aileron deflection; (left aileron - right aileron)/2
	CANARD	canard - trailing edge down
	ELEVON	elevon - trailing edge down
	ELEVTR	elevator - trailing edge down
	FLAP	flap - trailing edge down
	RUDDER	rudder - trailing edge to the left
	SPOILR	spoiler - trailing edge down
	TAB	tab - trailing edge down with respect to control surface
δ		antisymmetrical surface deflection angle, degrees; positive trailing edge down:
	AIL-L	left aileron - trailing edge down
	AIL-R	right aileron - trailing edge down
	ELVN-L	left elevon - trailing edge down
	ELVN-R	right elevon - trailing edge down
	SPLR-L	left spoiler - trailing edge down
	SPLR-R	right spoiler - trailing edge down

SURFACE SUBSCRIPTS	DEFINITION
a	aileron
b	base
c	canard
e	elevator or elevon
f	flap
r	rudder or ruddervator
s	spoiler
t	tail

ADDITIONS TO NOMENCLATURE

SYMBOL	SADSAC SYMBOL	DEFINITION
CNDPOS	CNDPOS	canard vertical position (1=high, 2=low)
WNGPOS	WNGPOS	wing vertical position (1=high, 2=low)
i_w	INCIDW	wing incidence angle, positive when trailing edge down; deg.
Γ_W	DIHDRL	wing dihedral angle; deg.
i_c	INCIDC	canard incidence angle, positive when trailing edge down; deg.
ΔC_L	DCL	incremental lift coefficient, algebraic difference of two runs.
ΔC_D	DCD	incremental drag coefficient, algebraic difference of two runs.
ΔC_M	DCLM	incremental pitching moment coefficient, algebraic difference of two runs.
$\Delta L/D$	DL/D	incremental lift drag ratio, algebraic difference of two runs.
ΔC_y	DCY	incremental side force coefficient, algebraic difference of two runs.
ΔC_n	DCYN	incremental yawing moment coefficient, algebraic difference of two runs. Body axis system.
ΔC_ℓ	DCBL	incremental rolling moment coefficient, algebraic difference of two runs. Body axis system.

TABULATED DATA LISTING

A tabulated data listing, consisting of all aero data sets, both original and those created in arriving at the plotted material to be presented subsequently, is available as an addendum to this report. The tabular listing is made up in two sections:

(a) a brief summary list of all data sets containing the identifier, the descriptor, and the resident dependent variables.

(b) a full list of all data sets containing all resident or selected aerodynamic coefficients of the data sets as well as the above mentioned information.

The listing is currently sent on limited distribution to the following organizations:

NASA AMES	Mr. V. Stevens
NSRDC	Mr. D. Chadock

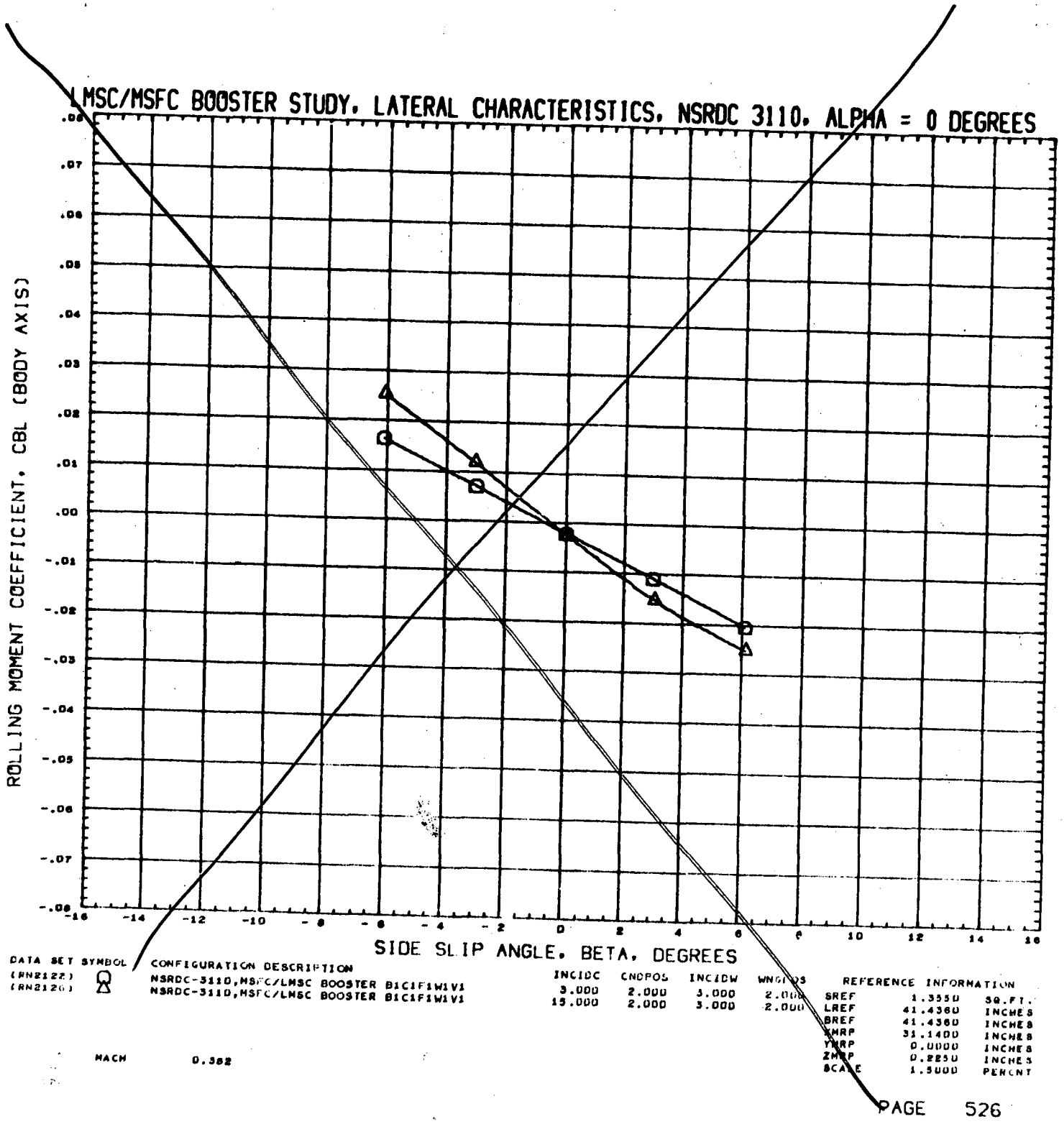
If copies of this listing are desired, please contact the above or the cognizant SADSAC personnel who, for this data, is:

W. R. Morgan
Department 2780
Chrysler Corporation Space Division
New Orleans, La. 70129

(504) 255-2304

PLOTTED DATA

Duped PAGE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.06
.05
.04
.03
.02
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-.03
-.04
-.05
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14
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(RN2126)
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15.000 2.000 3.000 2.000
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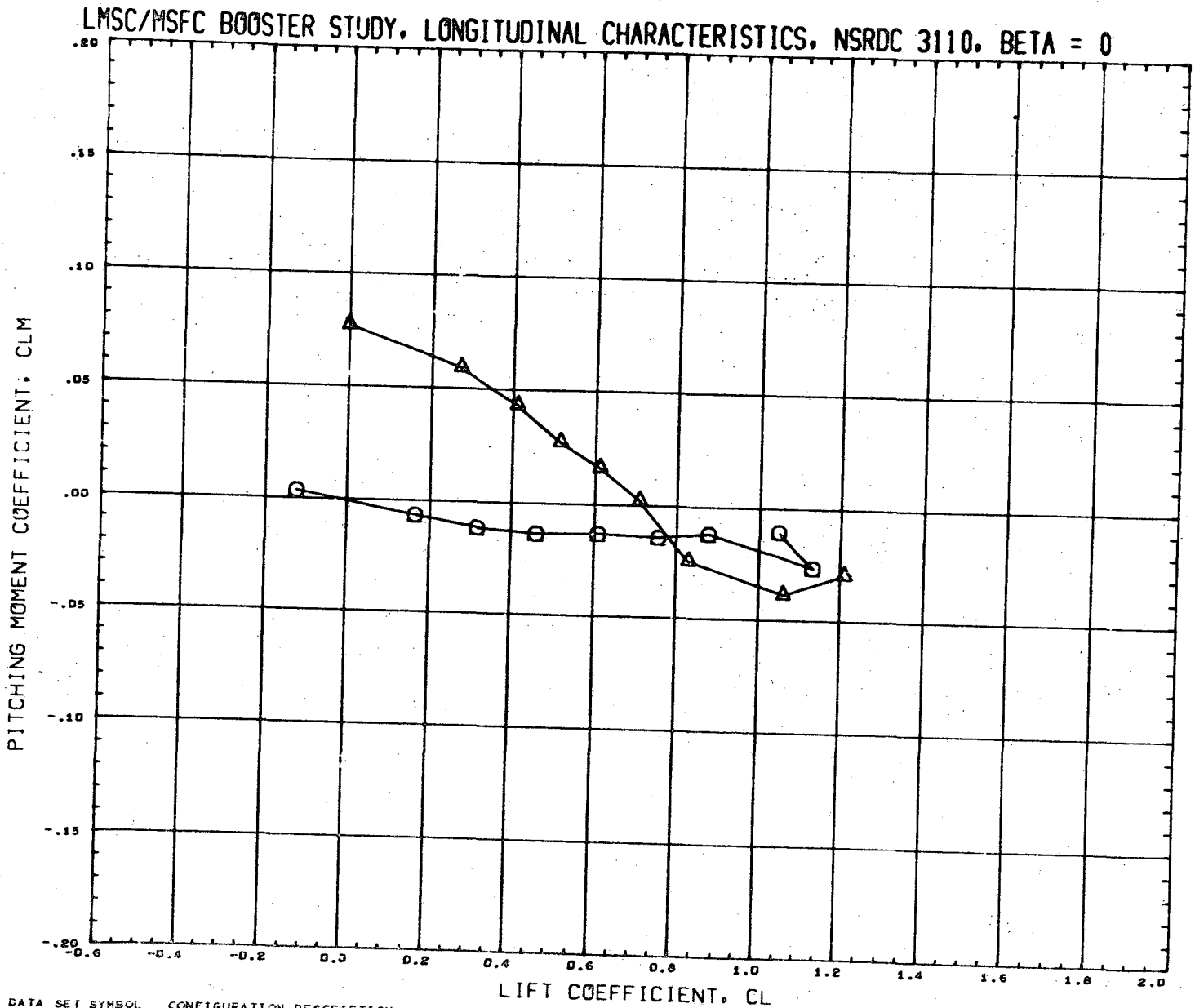

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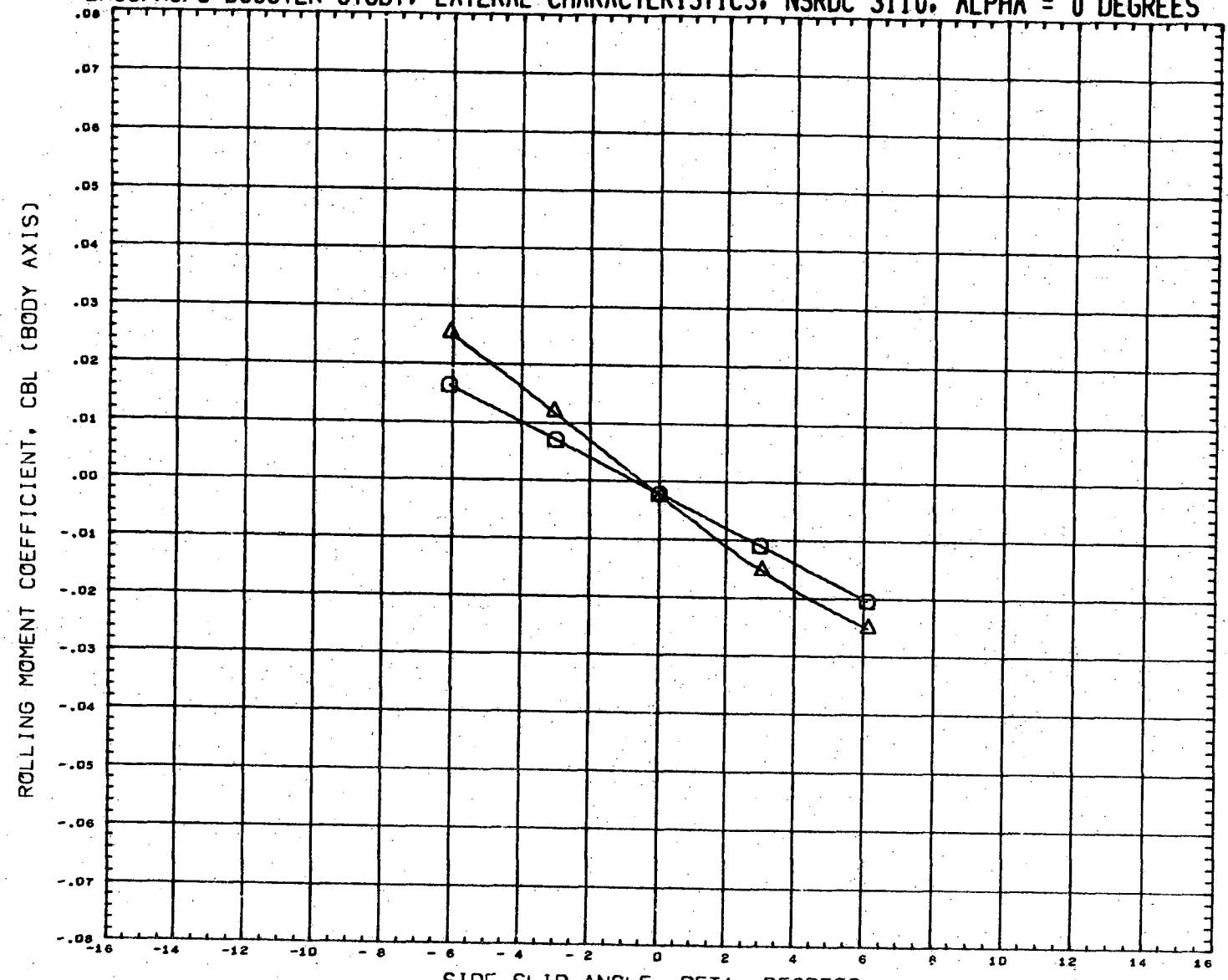

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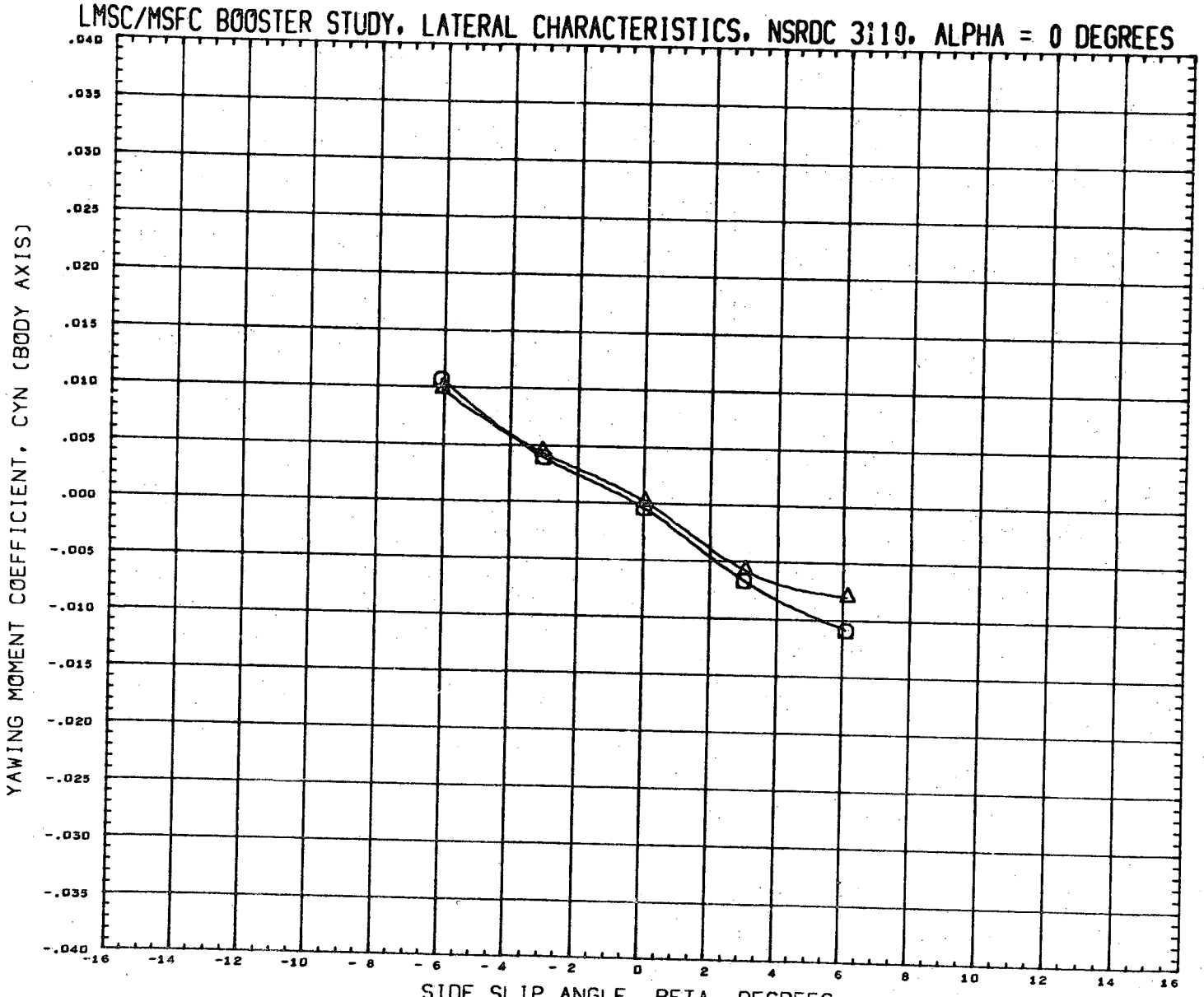

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(RN2126)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000

MACH 0.382

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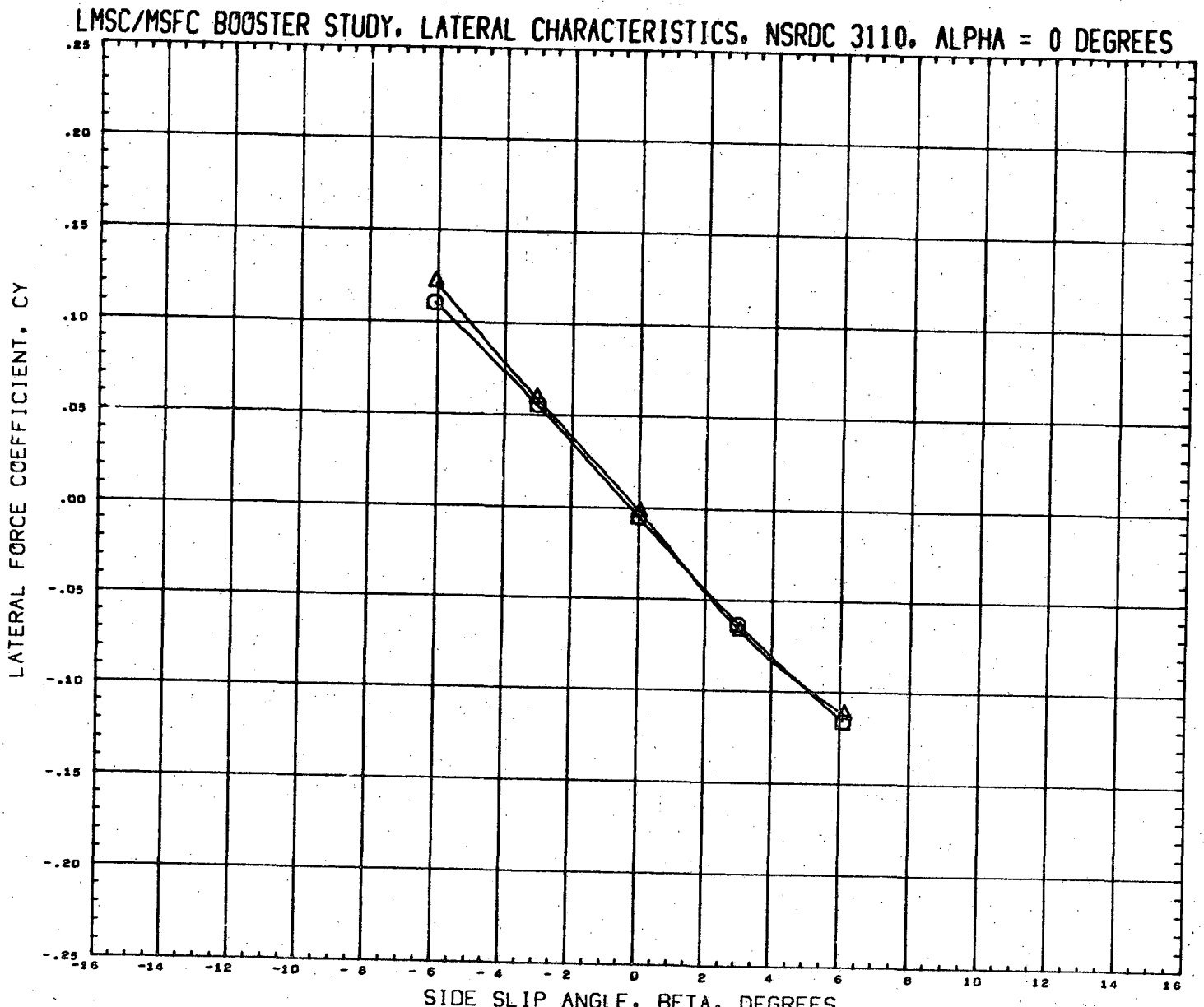

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15.000	2.000	3.000	2.000

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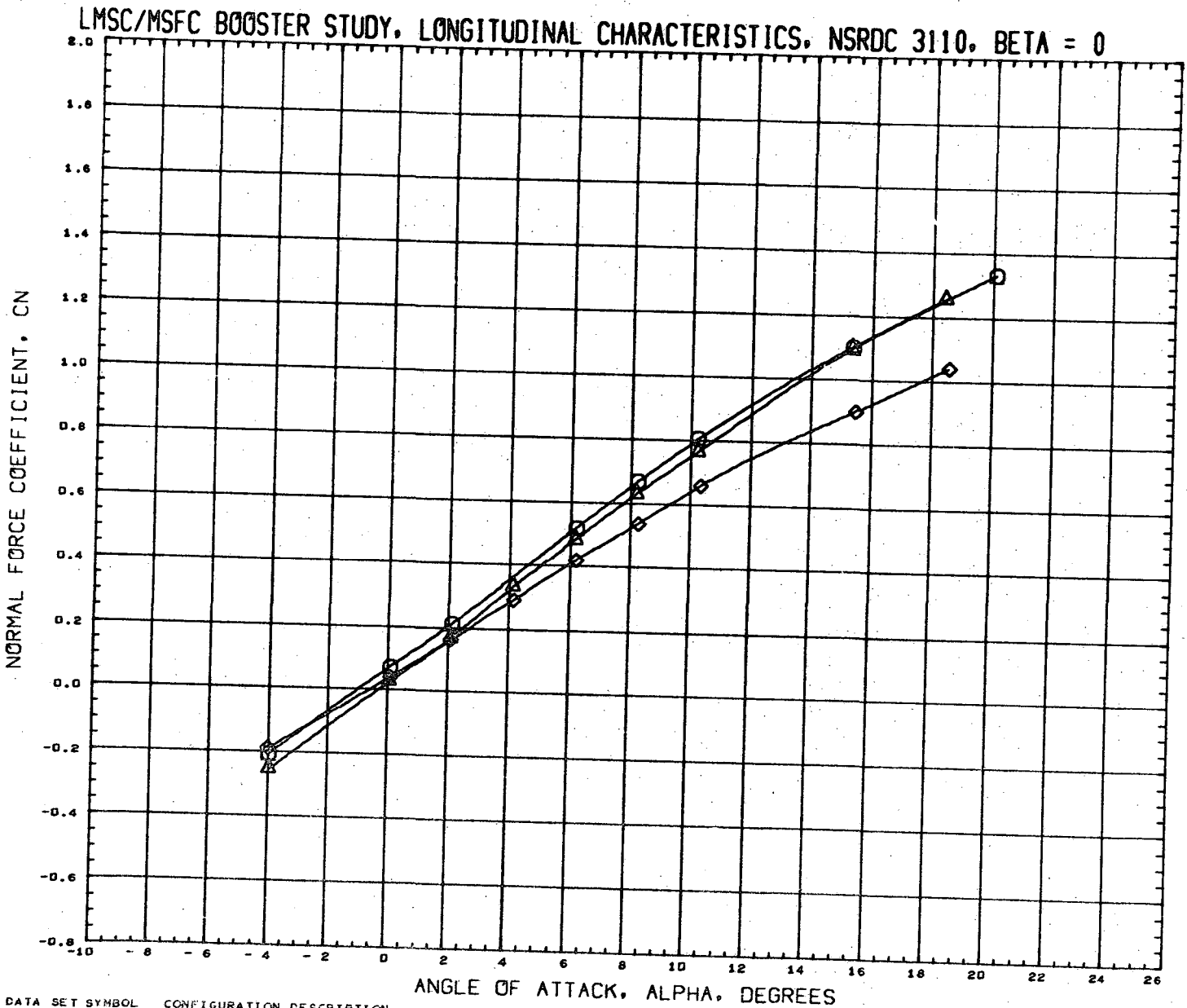

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MACH 0.381

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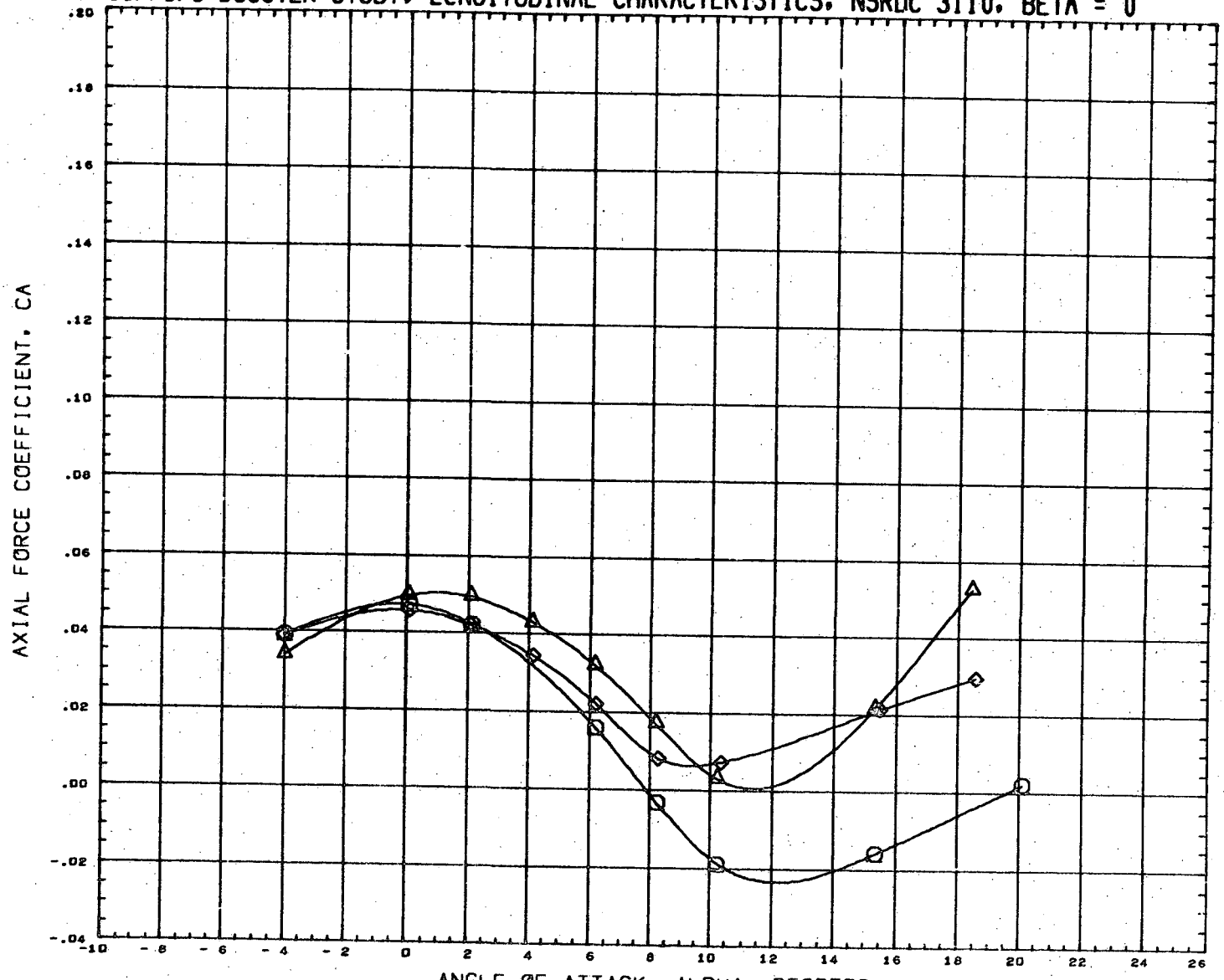

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MACH 0.381

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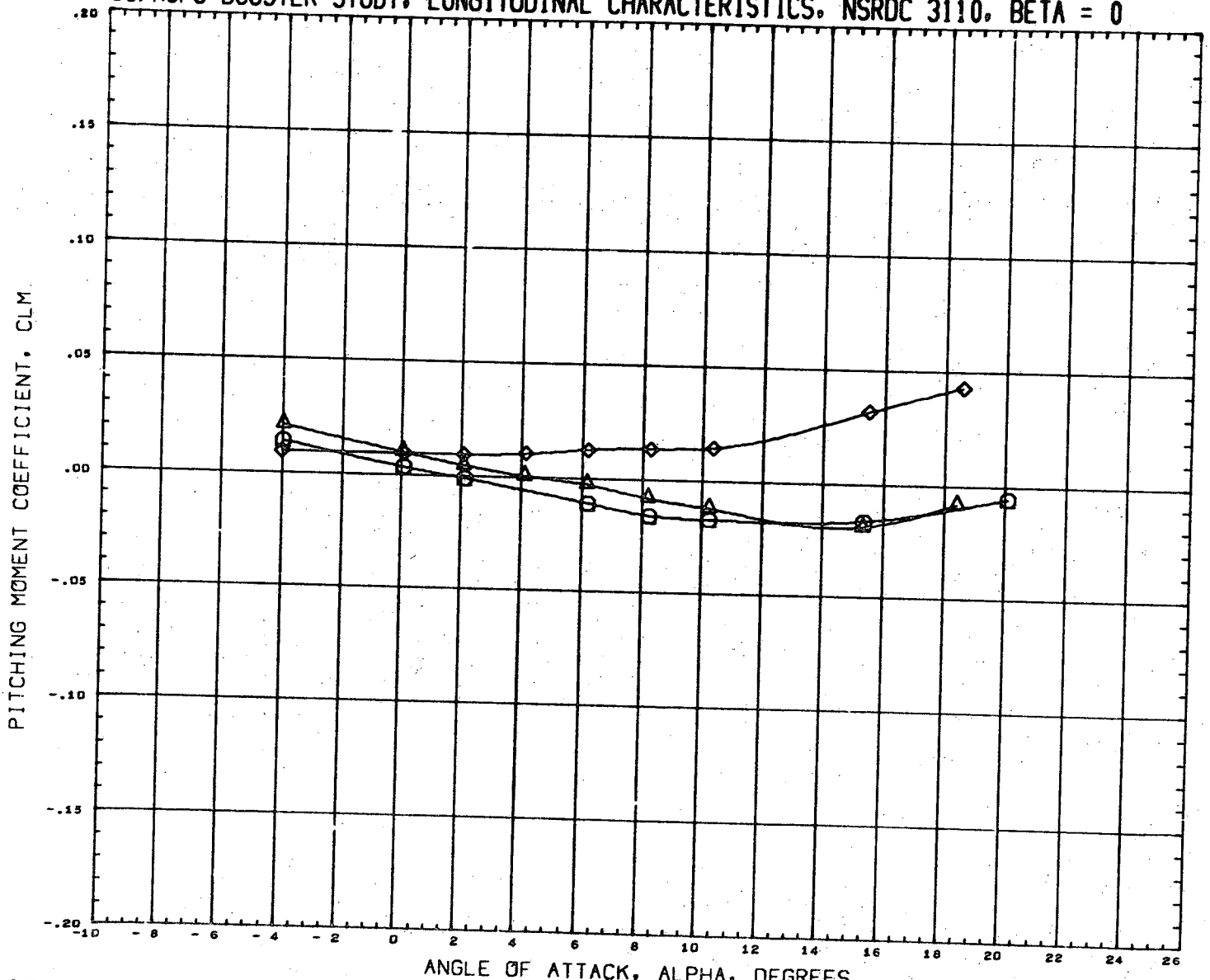

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MACH 0.381

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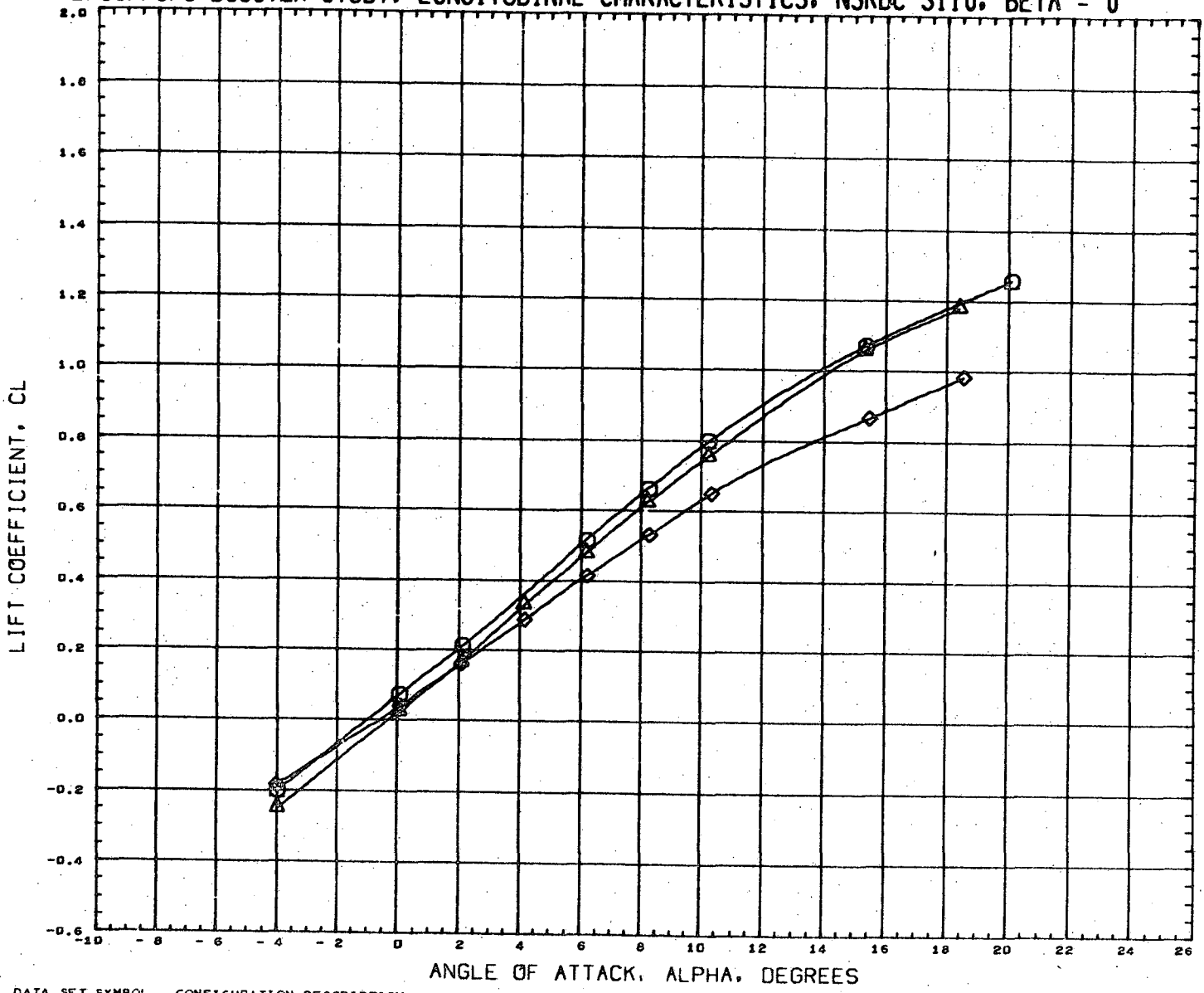

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MACH 0.381

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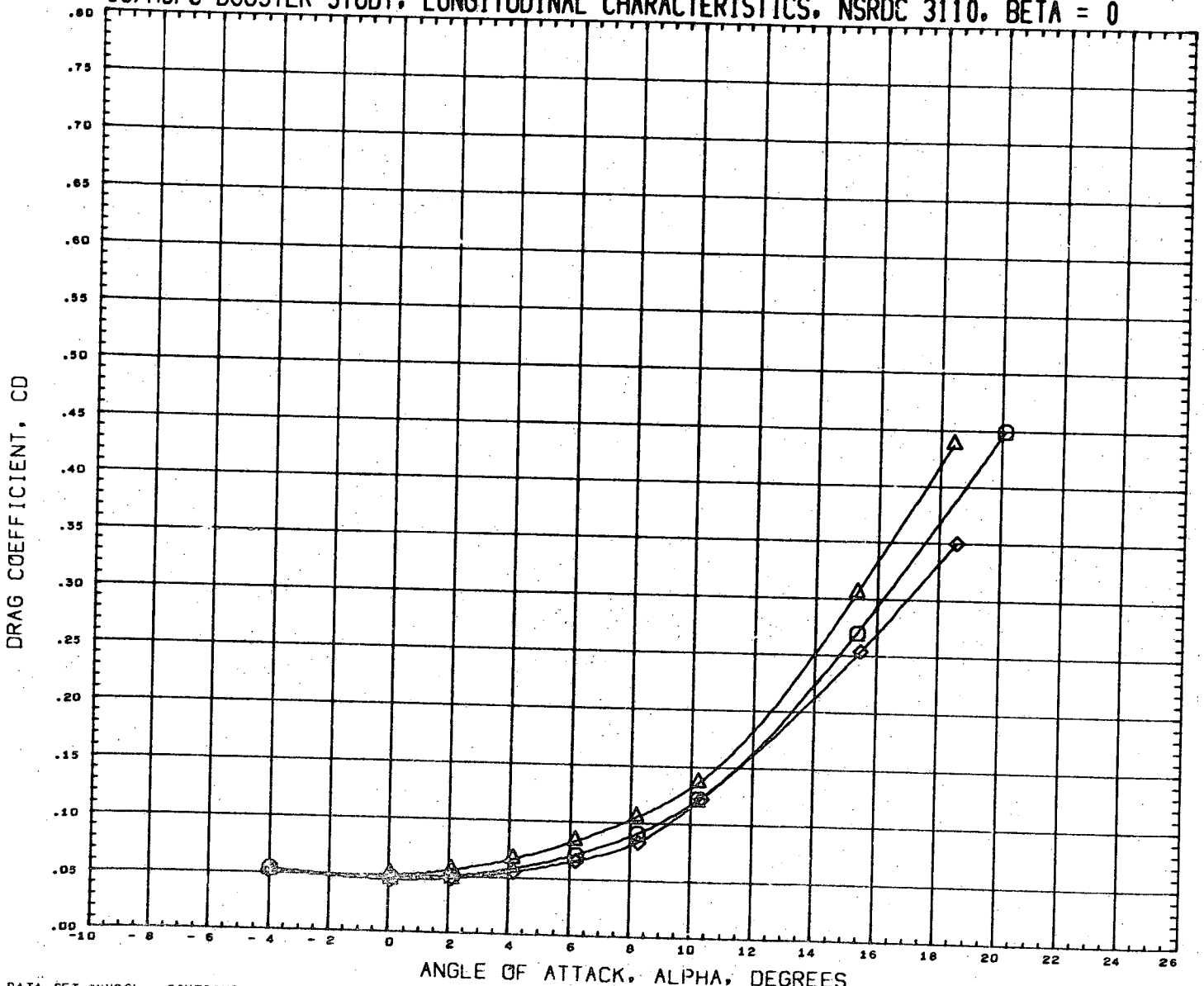

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(RN2257)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
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3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000

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YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

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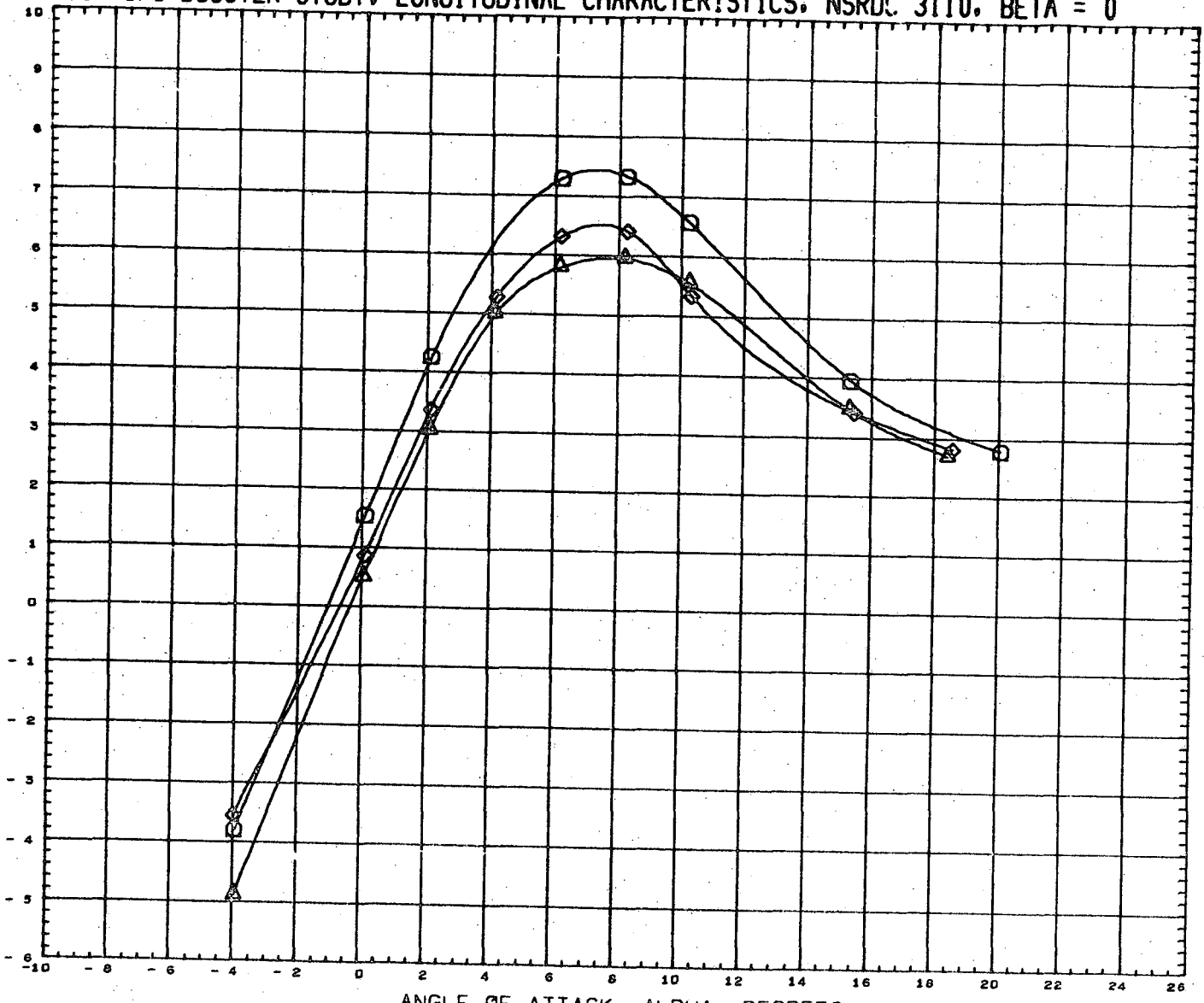

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3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000

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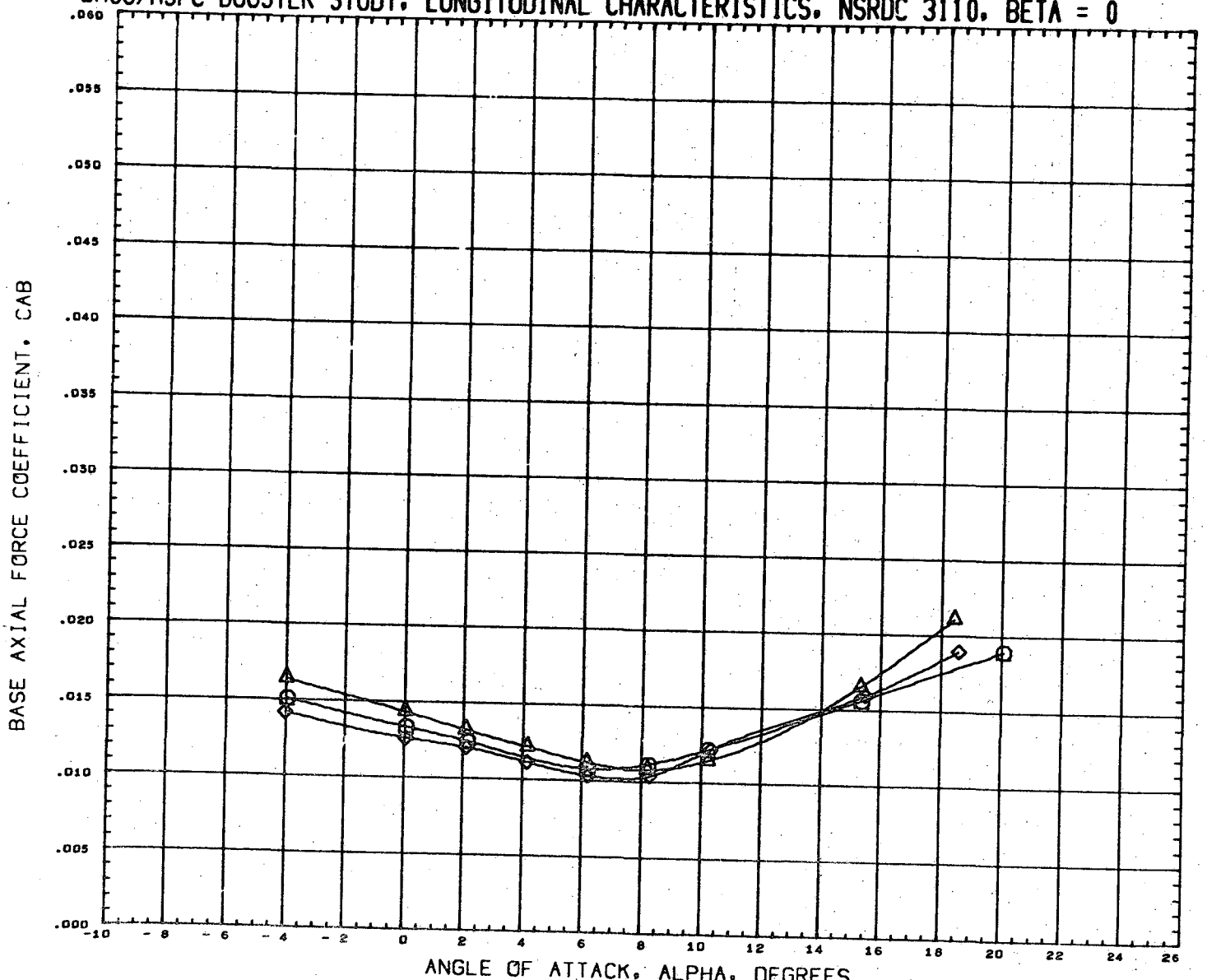
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY. LONGITUDINAL CHARACTERISTICS. NSRDC 3110. BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2193)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2257)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

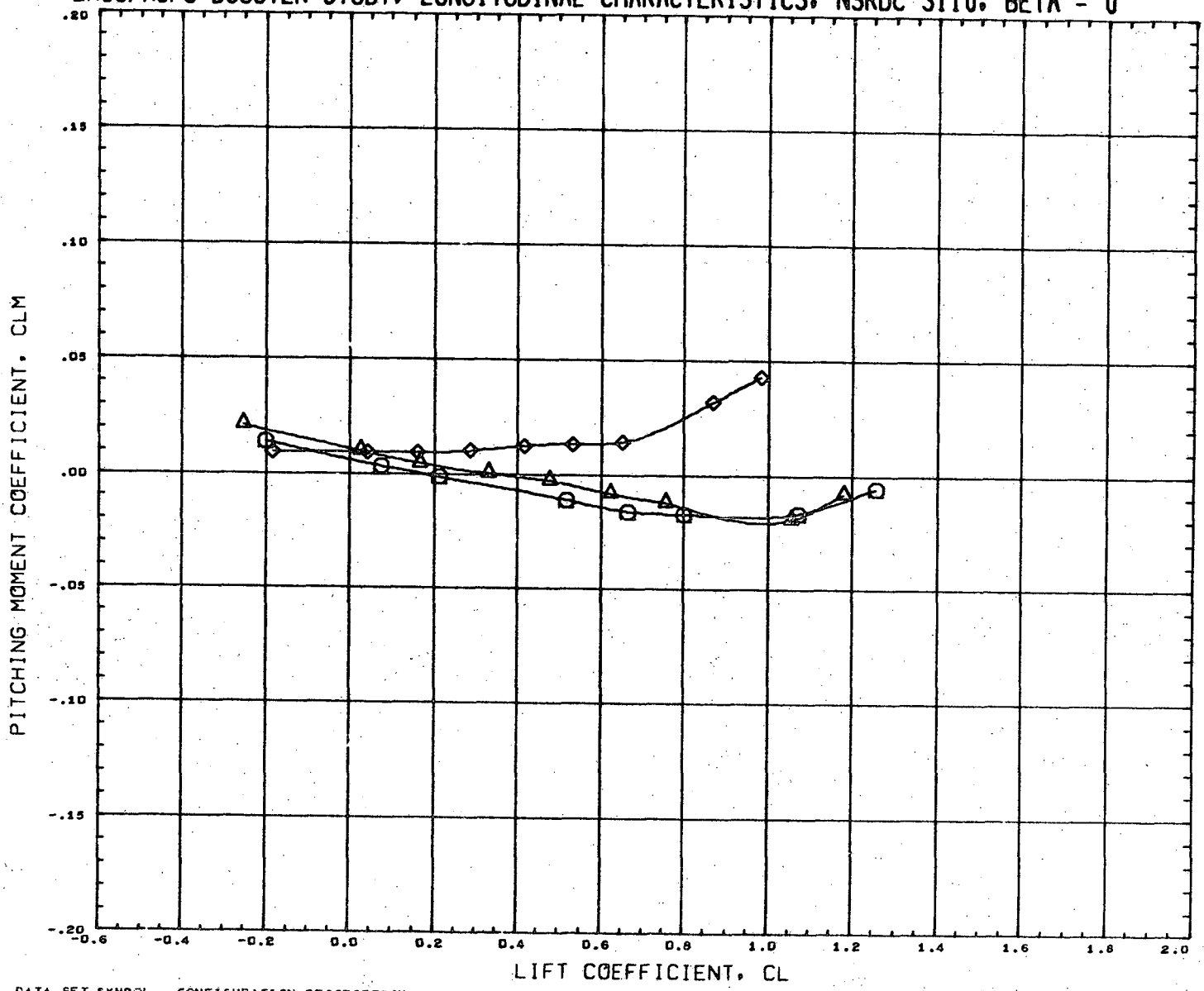
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

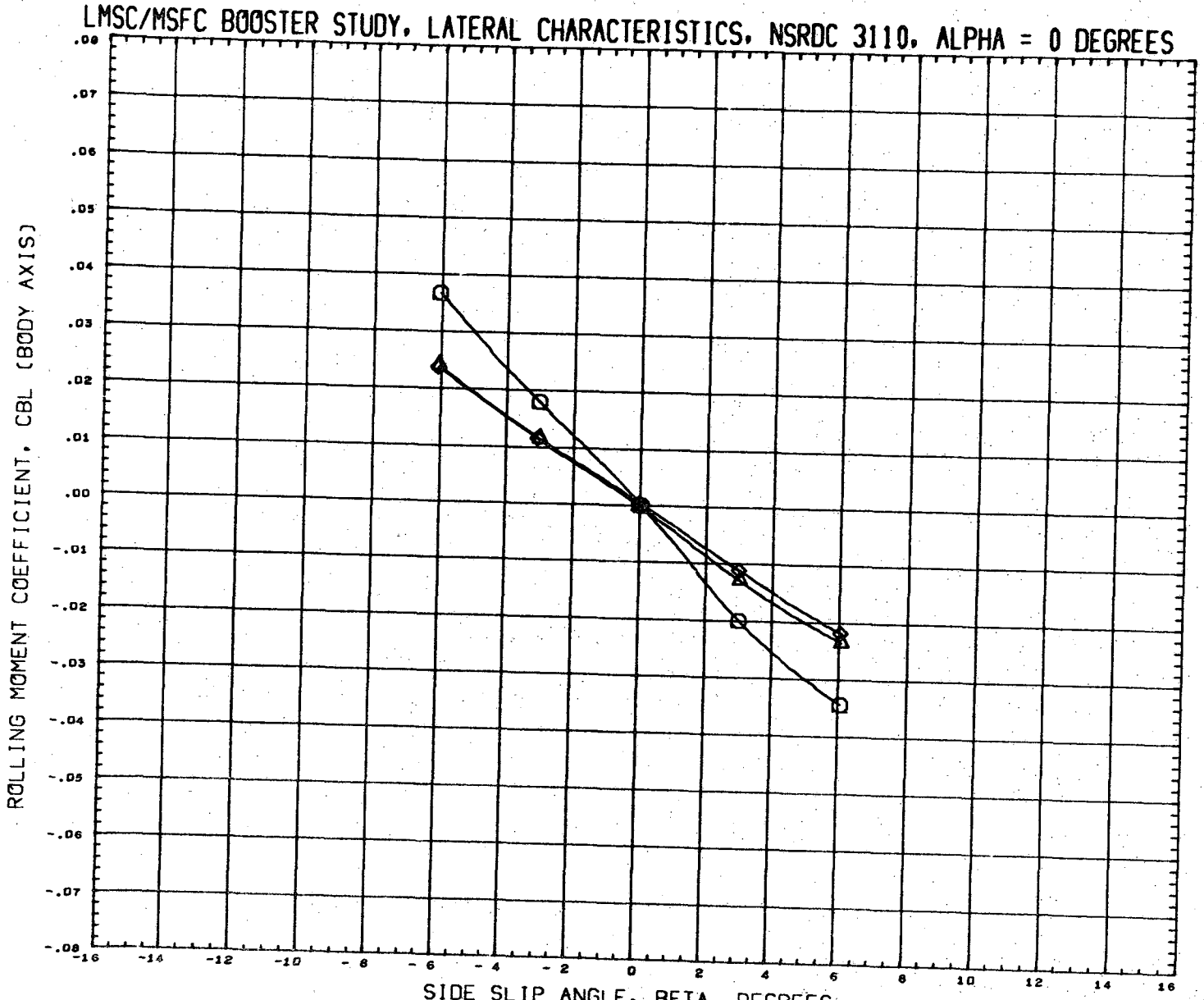
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2193)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000
(RN2257)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2002)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2194)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2258)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

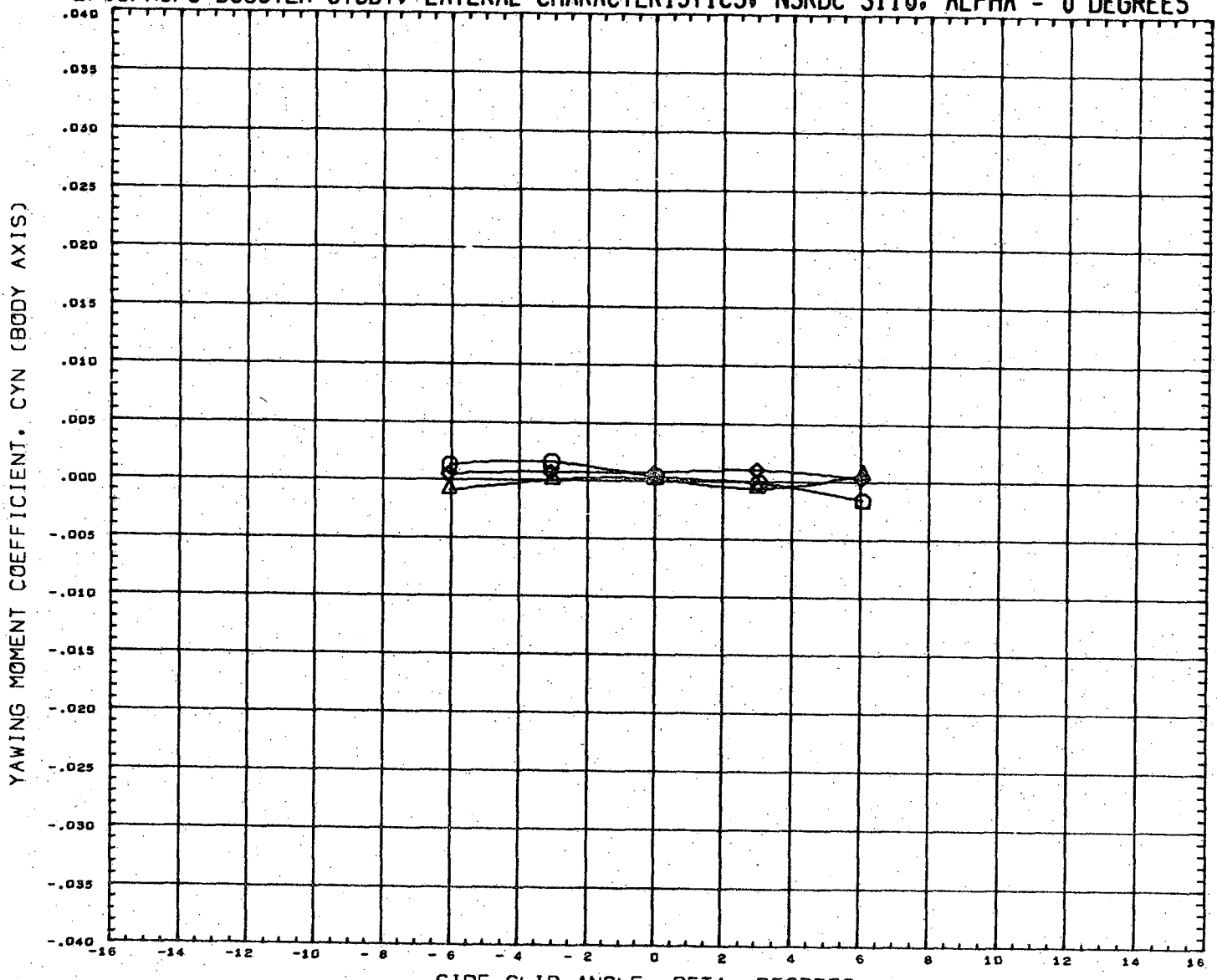
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

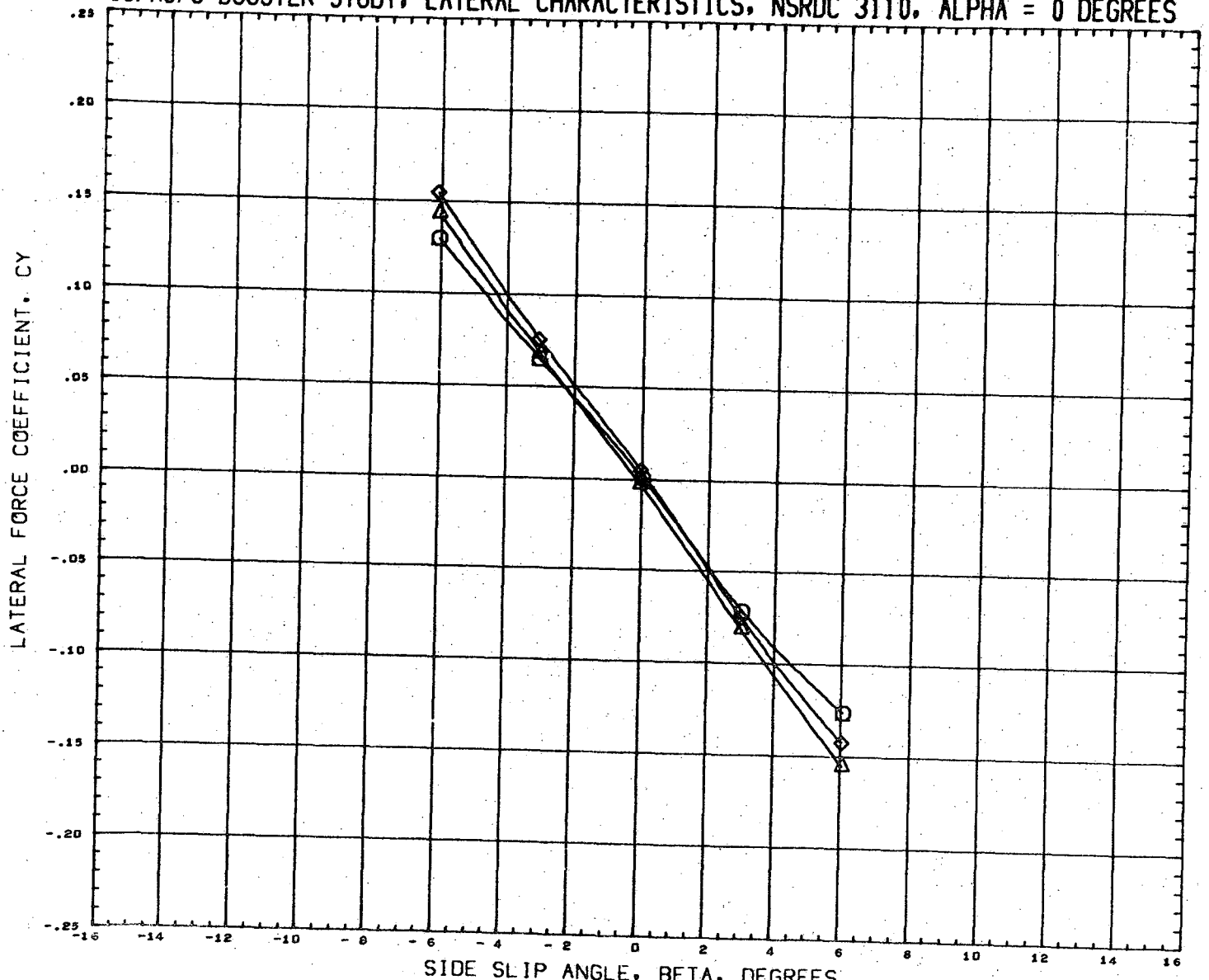


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2002)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2194)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000
(RN2258)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



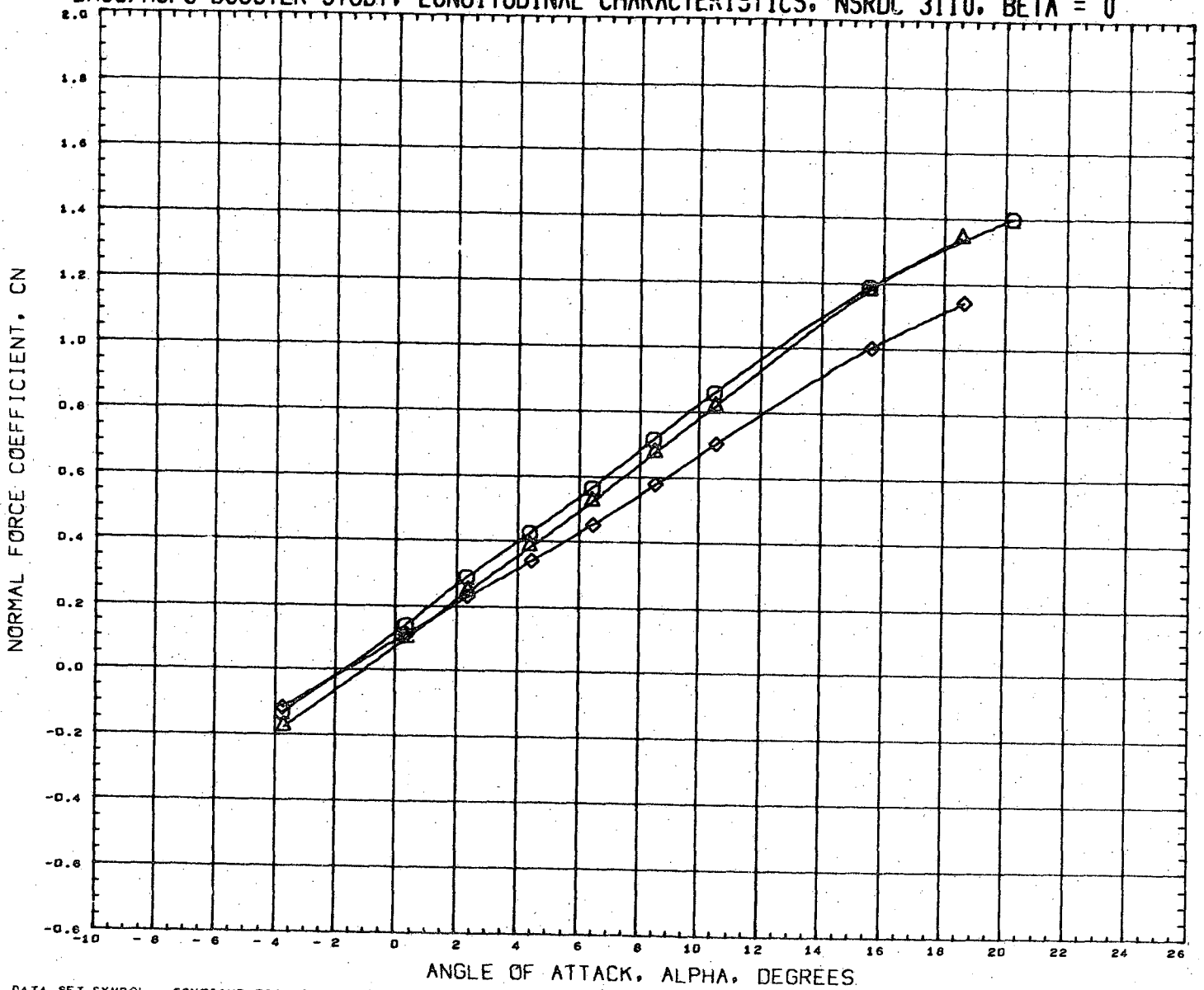
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2002)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2194)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2258)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.361

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

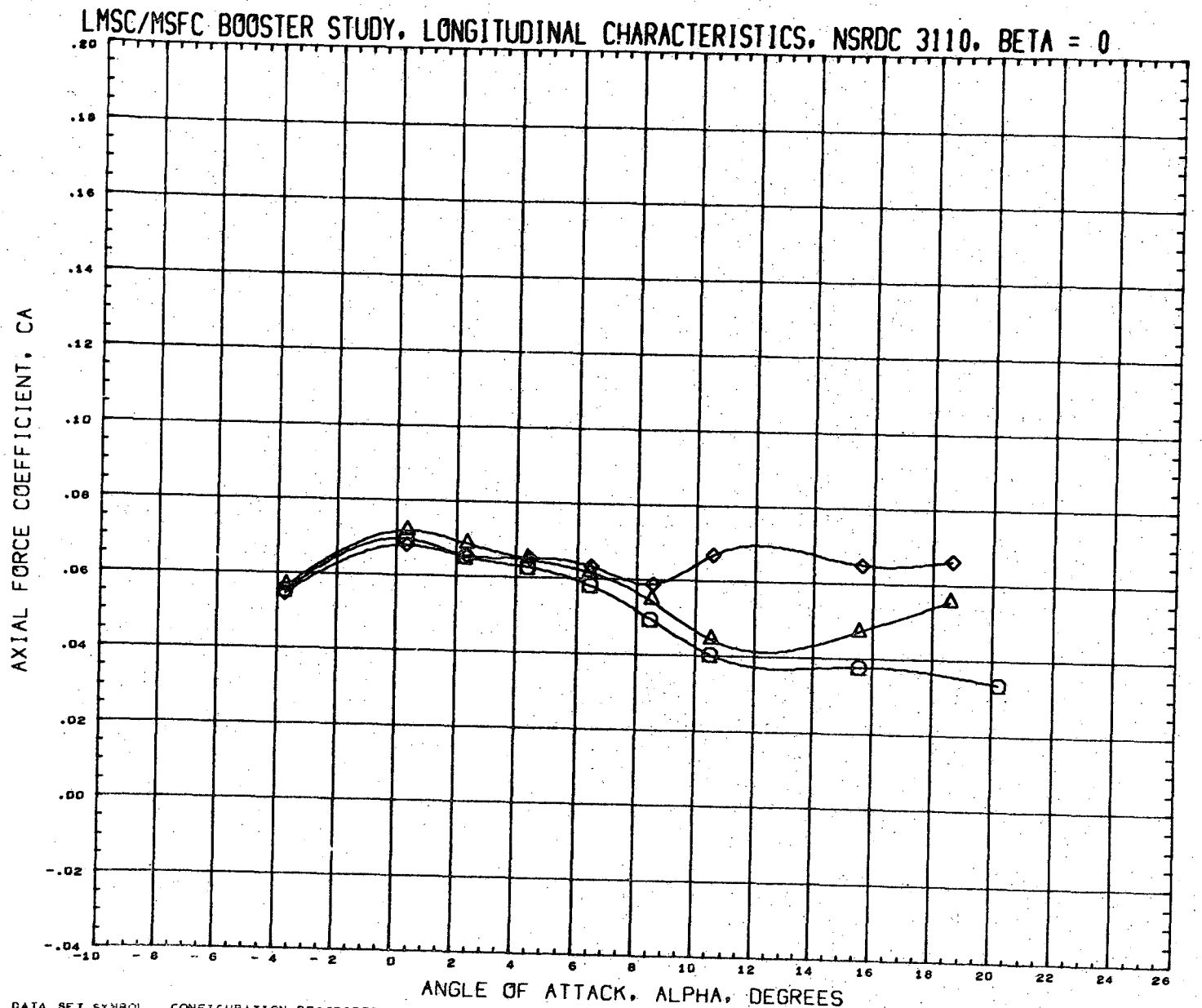


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2005)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2197)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2261)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

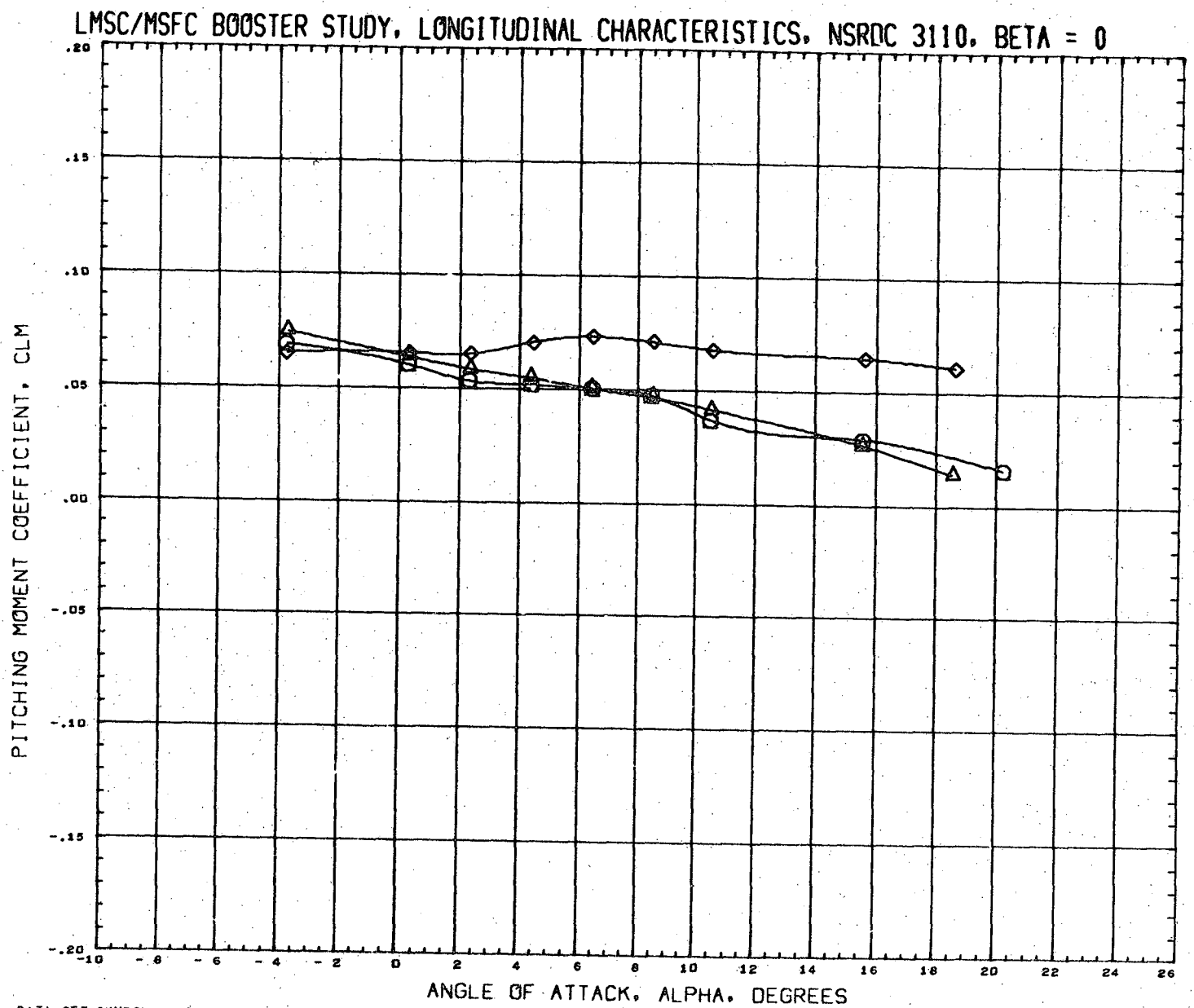


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2005) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2197) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2261) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

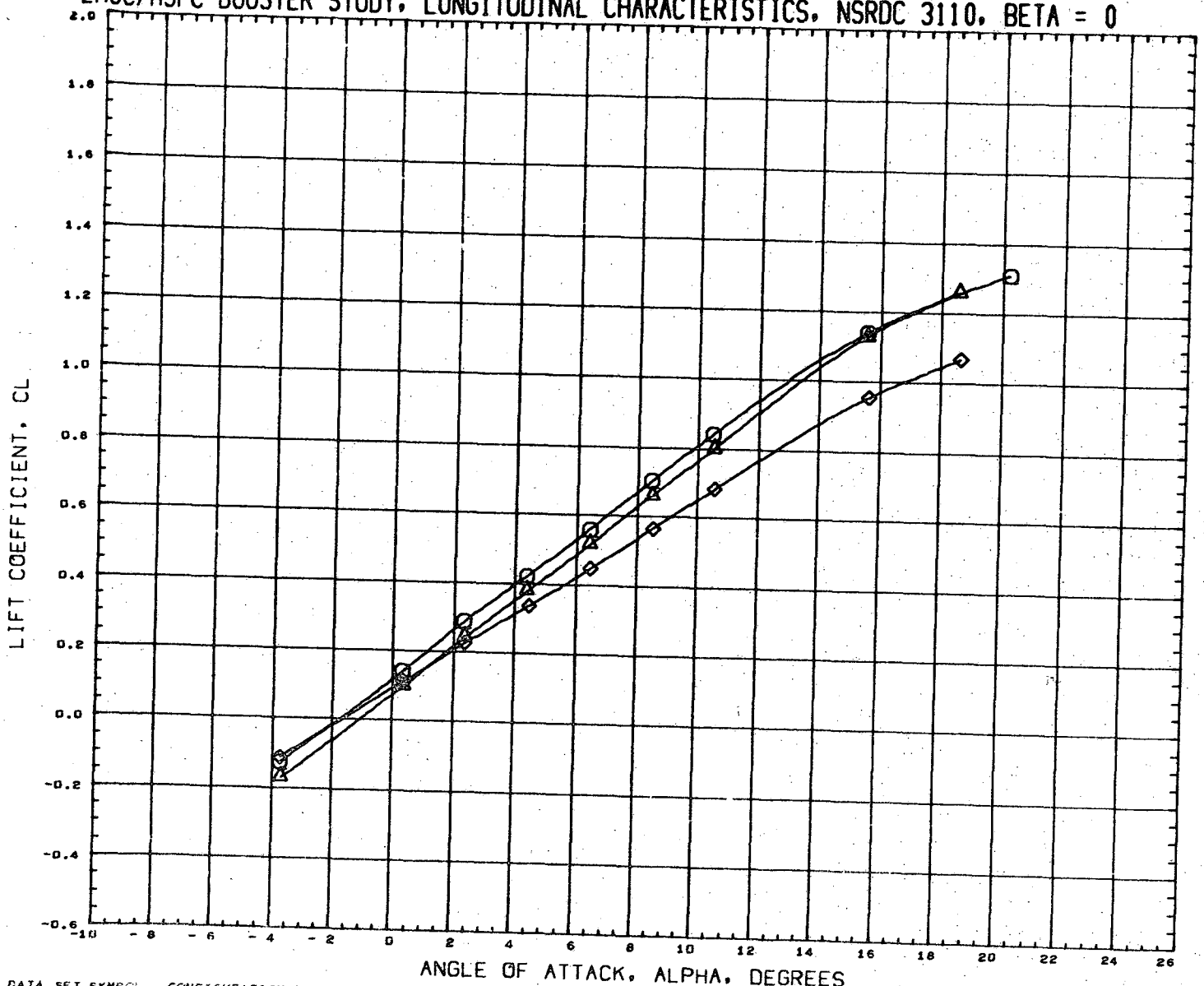
MACH 0.379



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2197)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2261)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2197)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2261)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

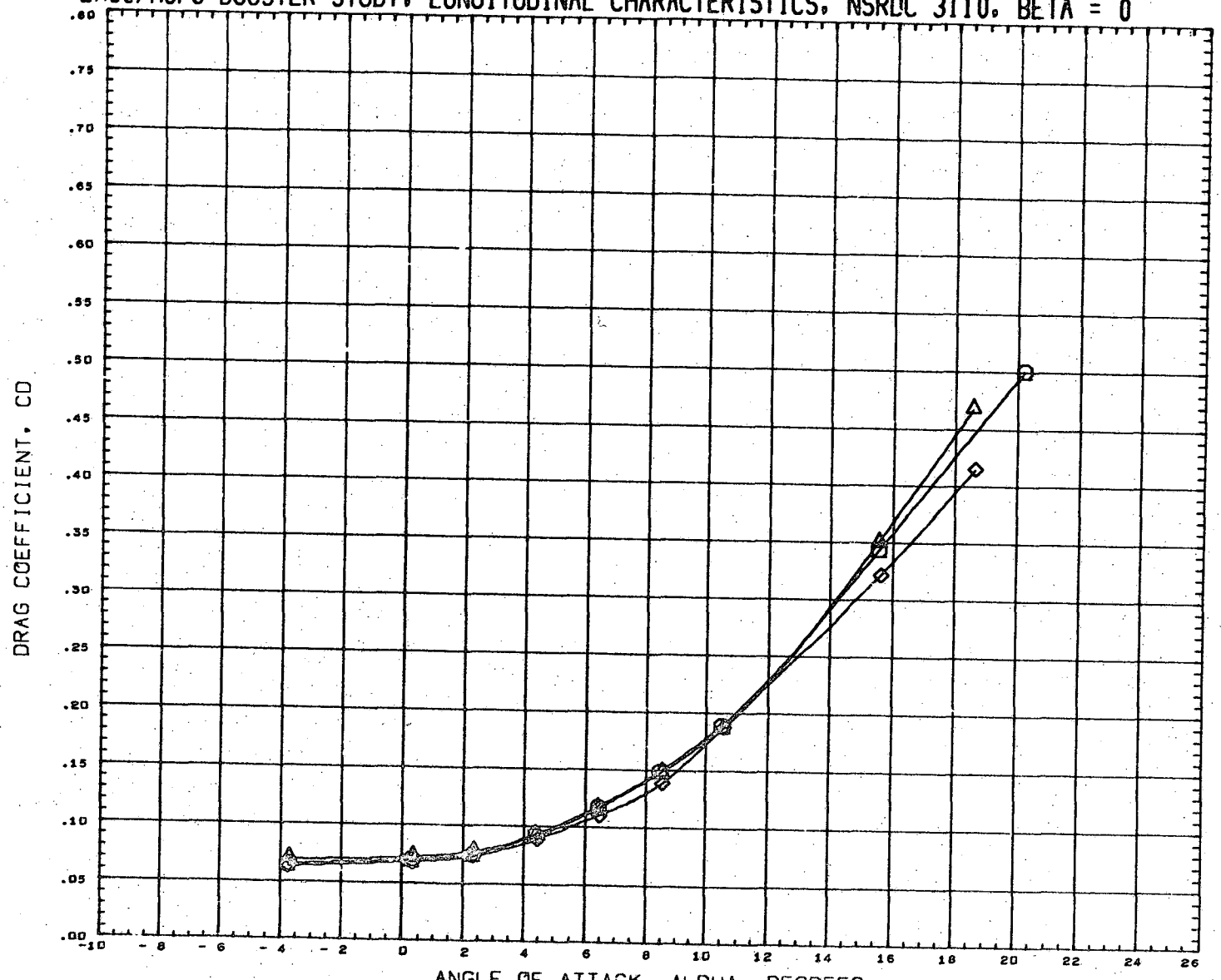
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000

MACH 0.379

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

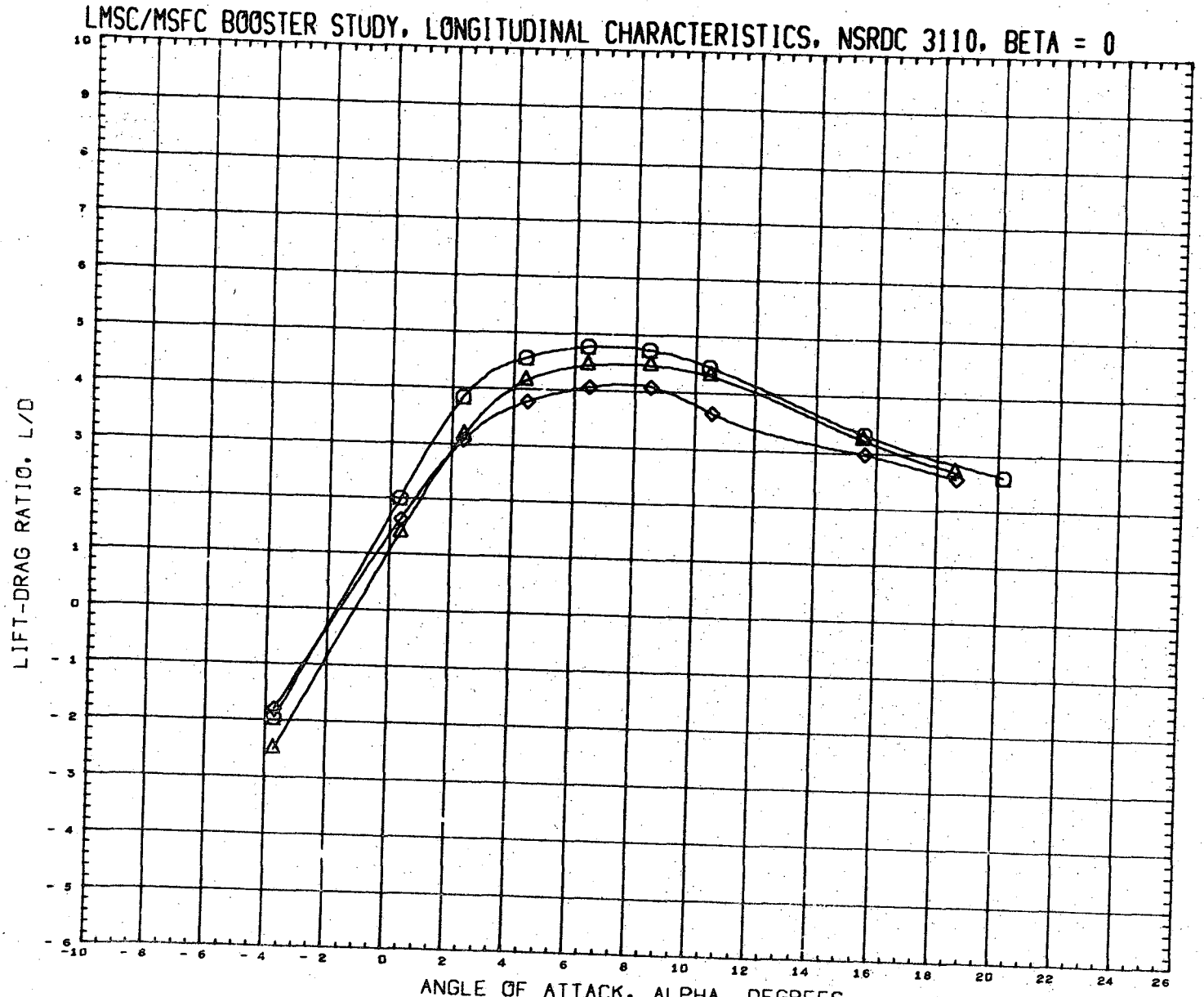
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2197)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2261)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



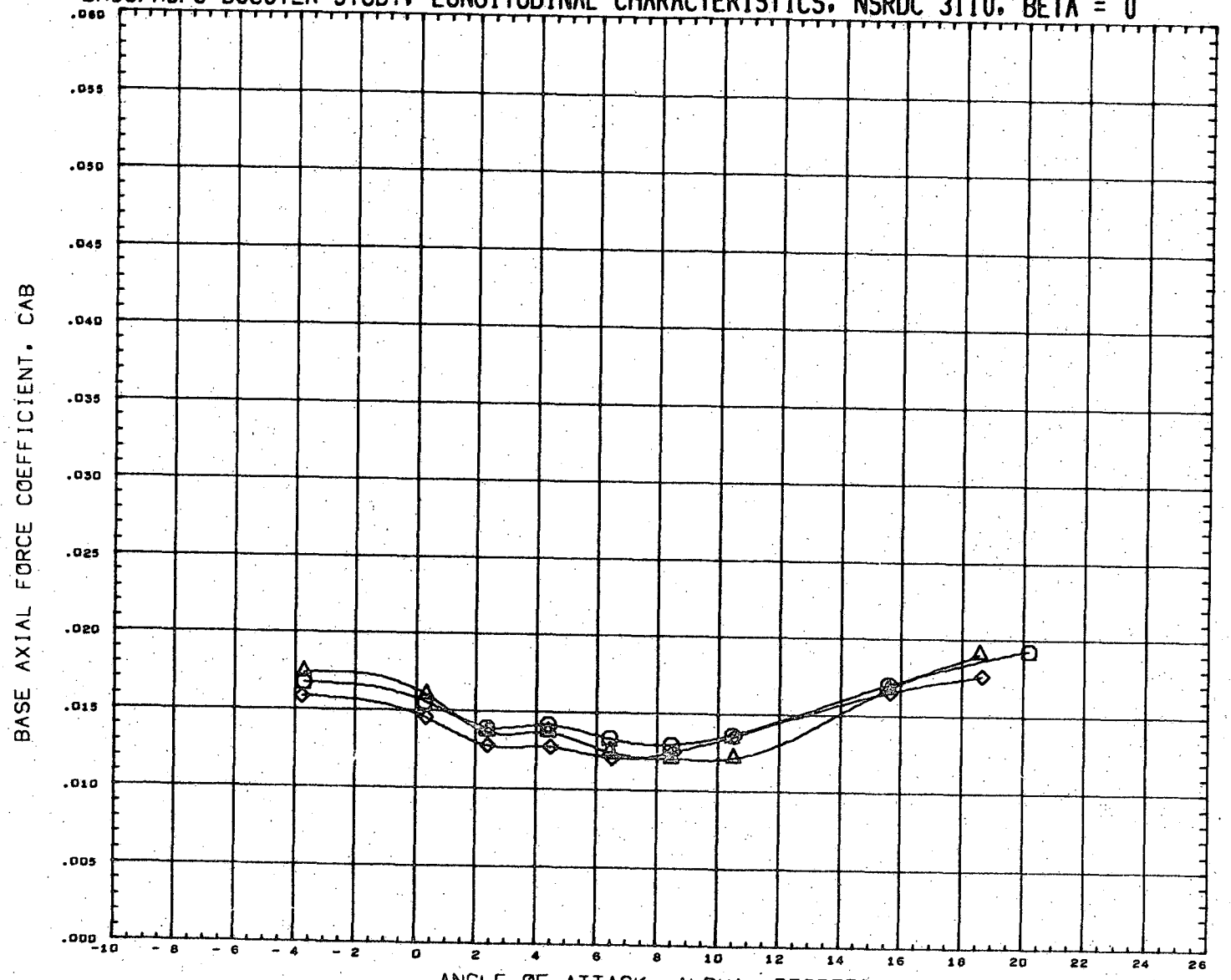
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2505) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2197) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2261) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

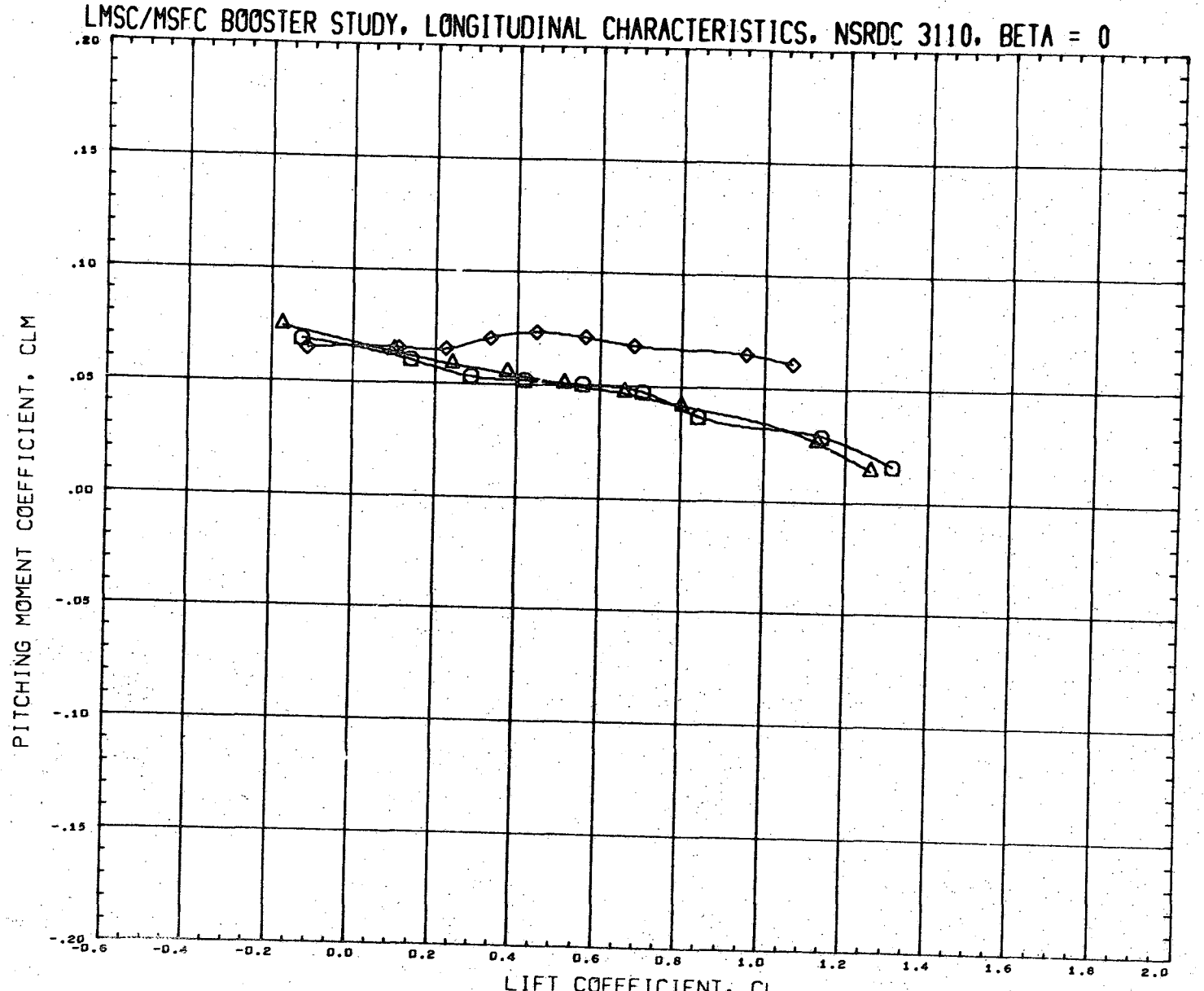
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2005) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2197) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2261) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



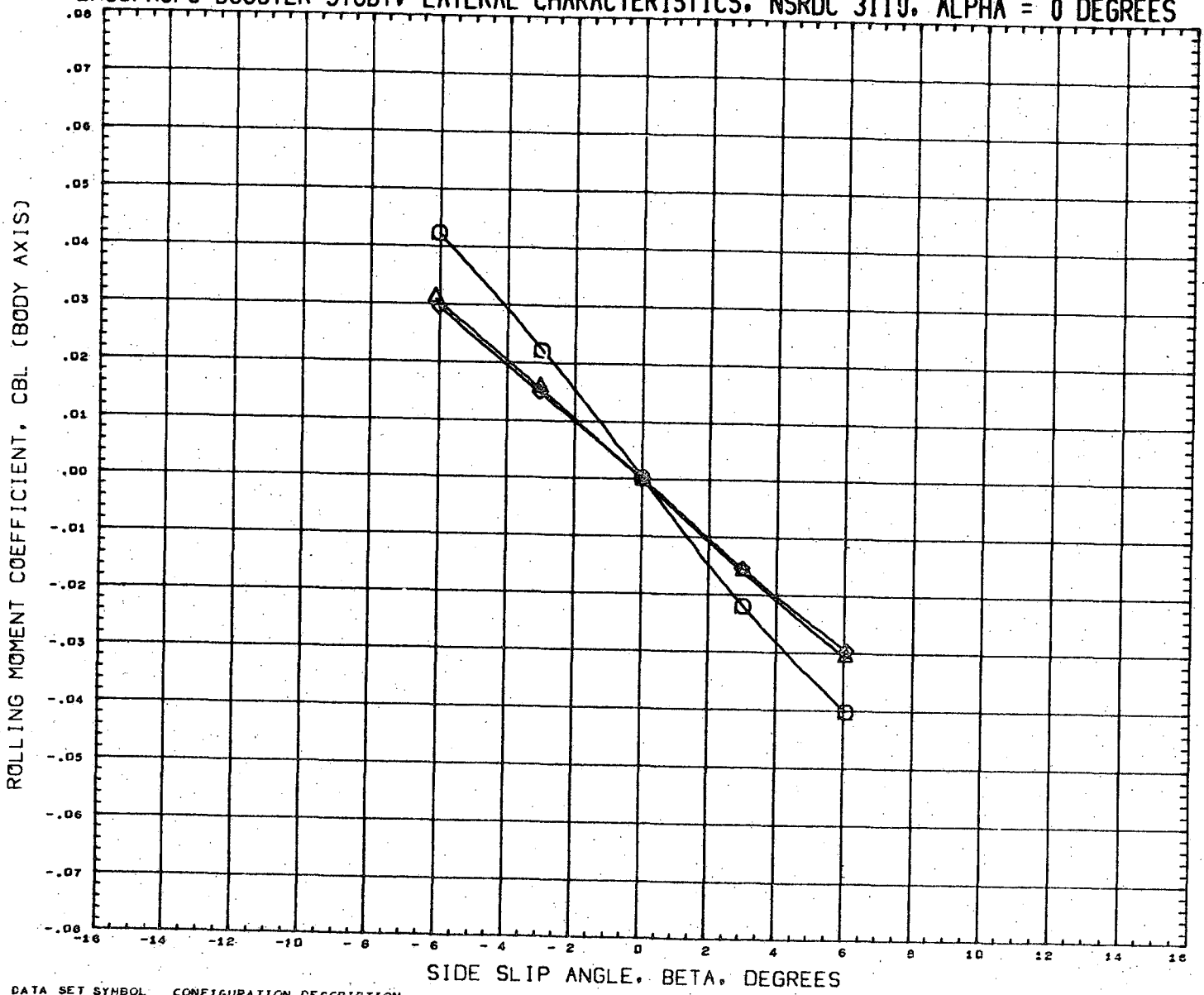
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2197)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2251)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

LMSC/MSFC BOOSTER STUDY. LATERAL CHARACTERISTICS. NSRDC 3110. ALPHA = 0 DEGREES



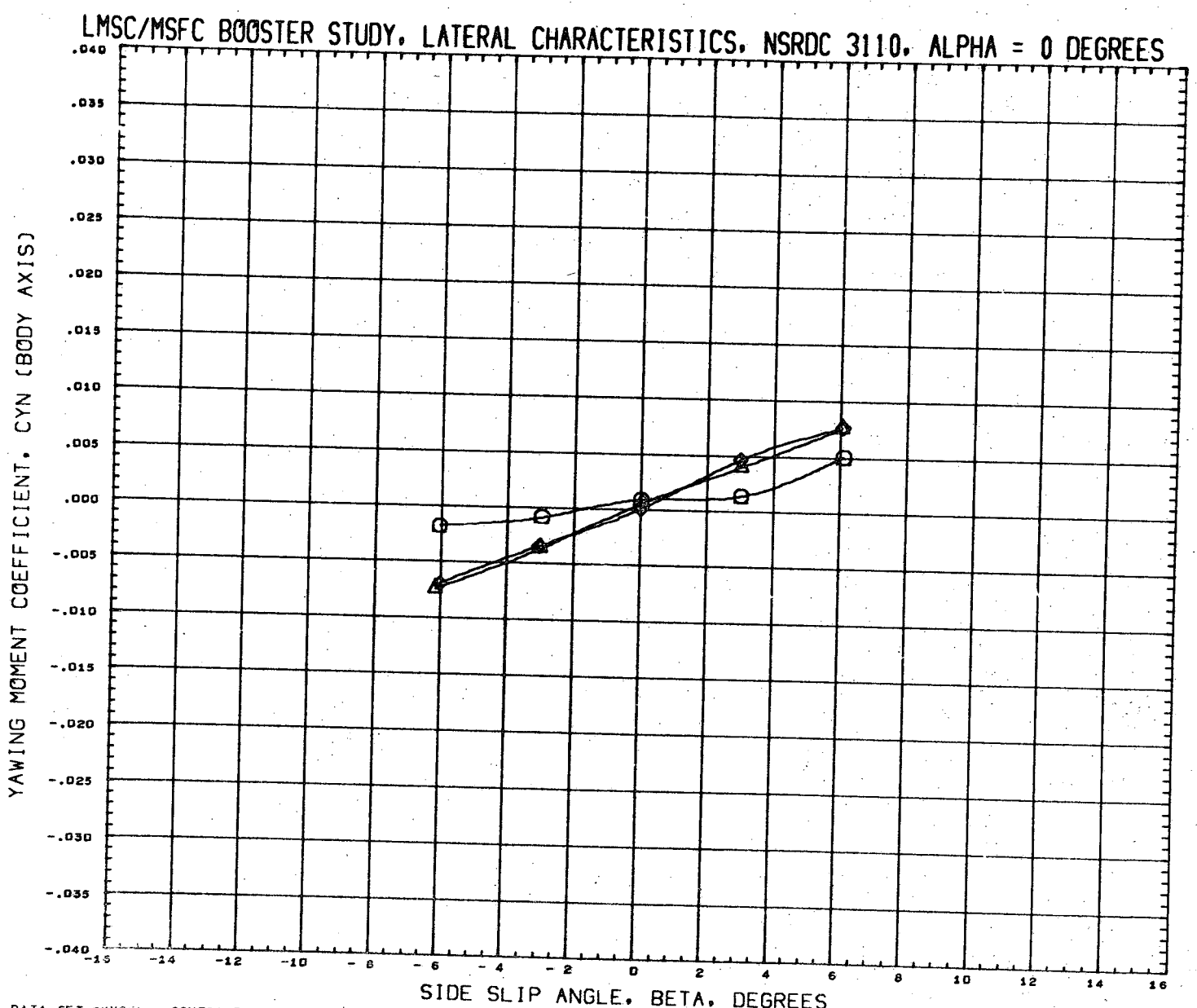
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2006)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2198)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2262)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

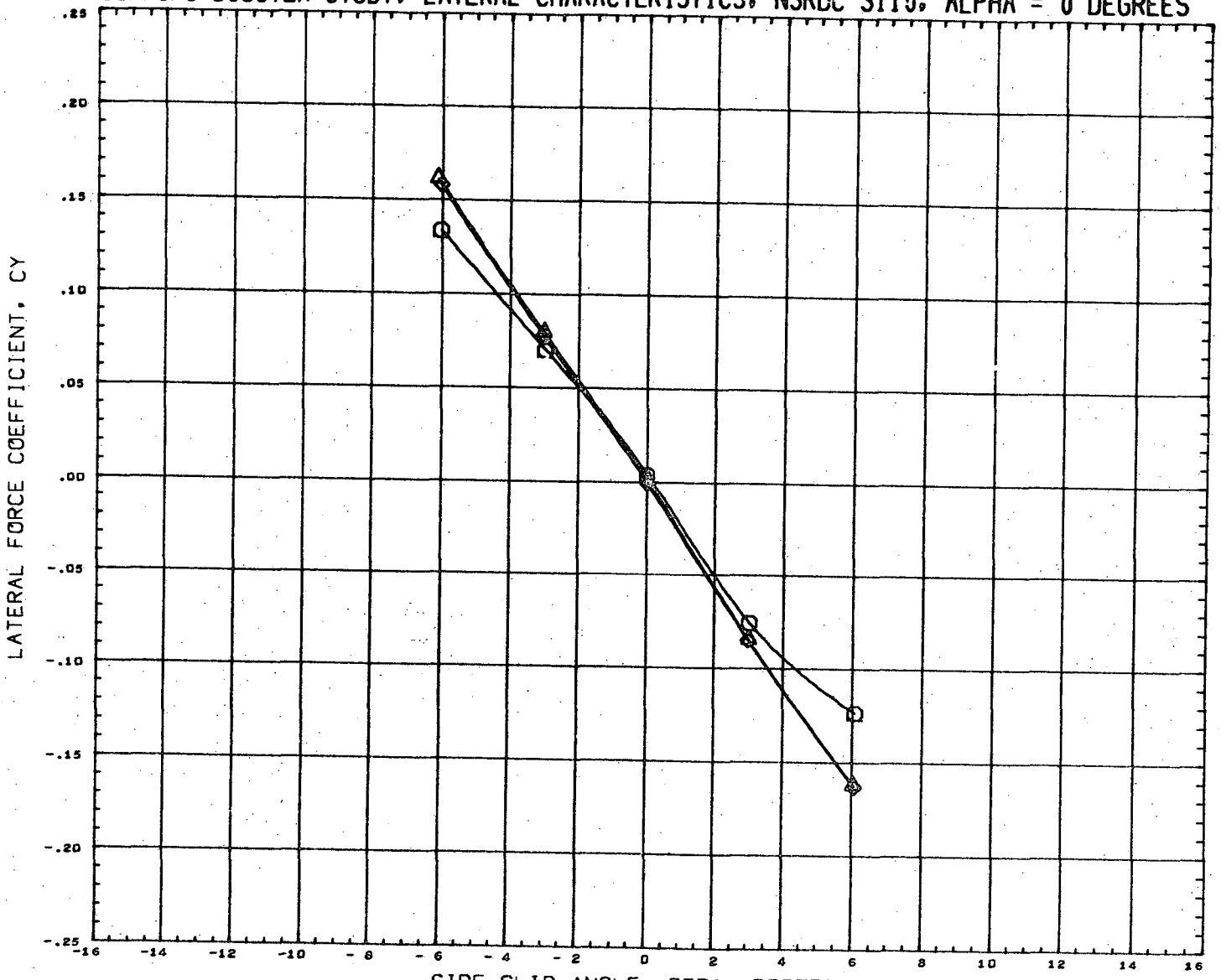


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2006) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2198) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2262) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



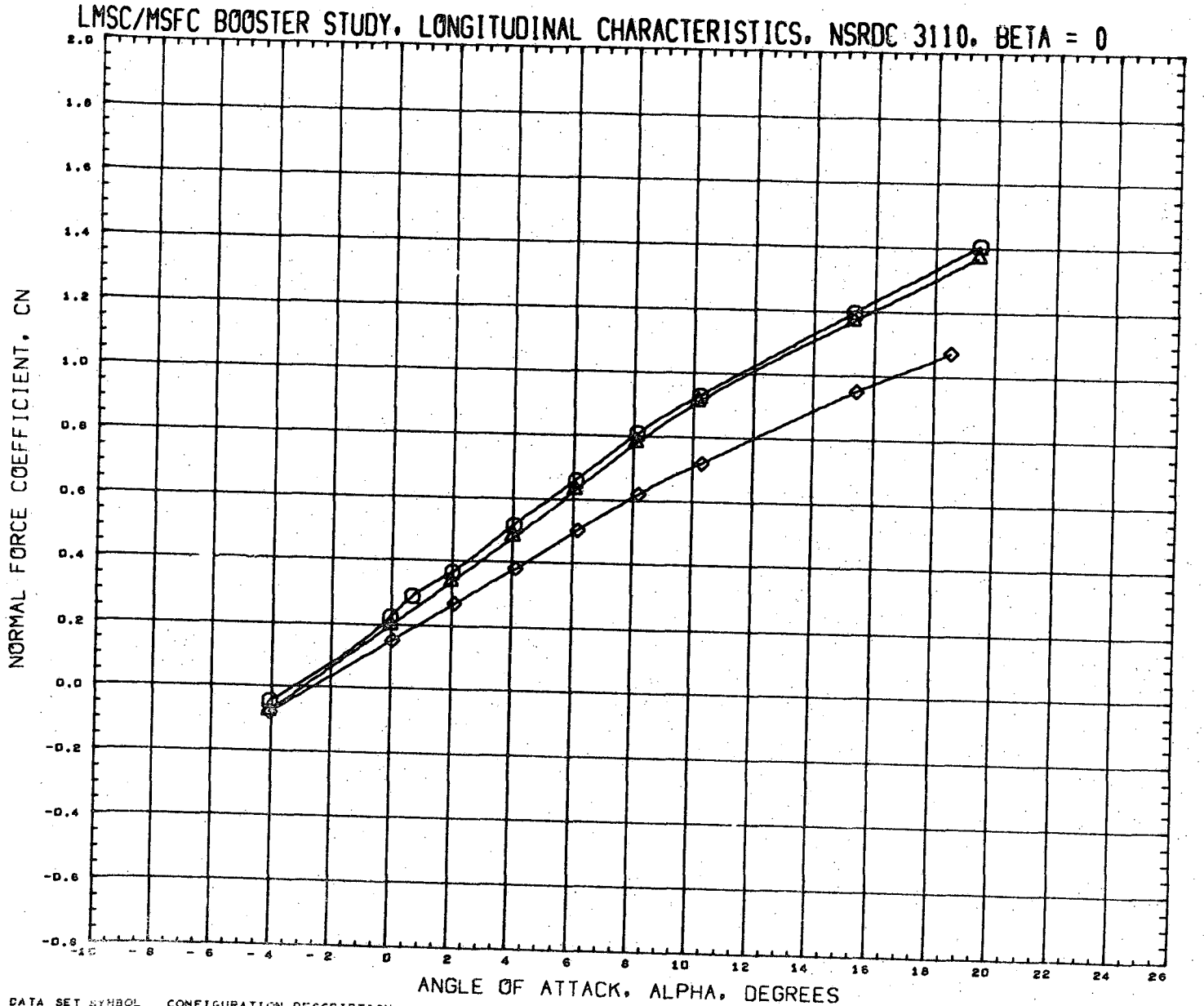
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2006)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2198)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2262)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380



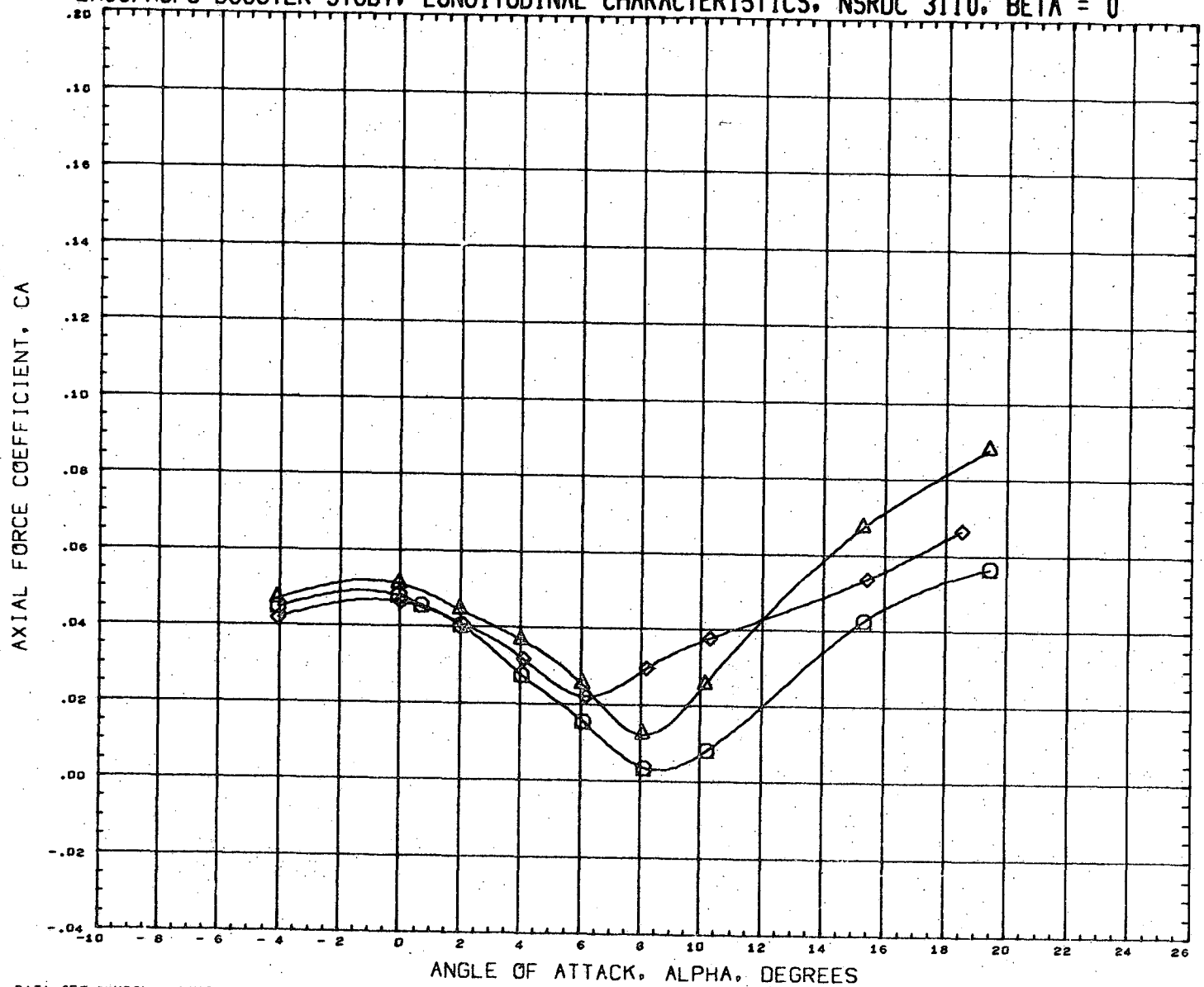
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2033)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2225)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2283)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



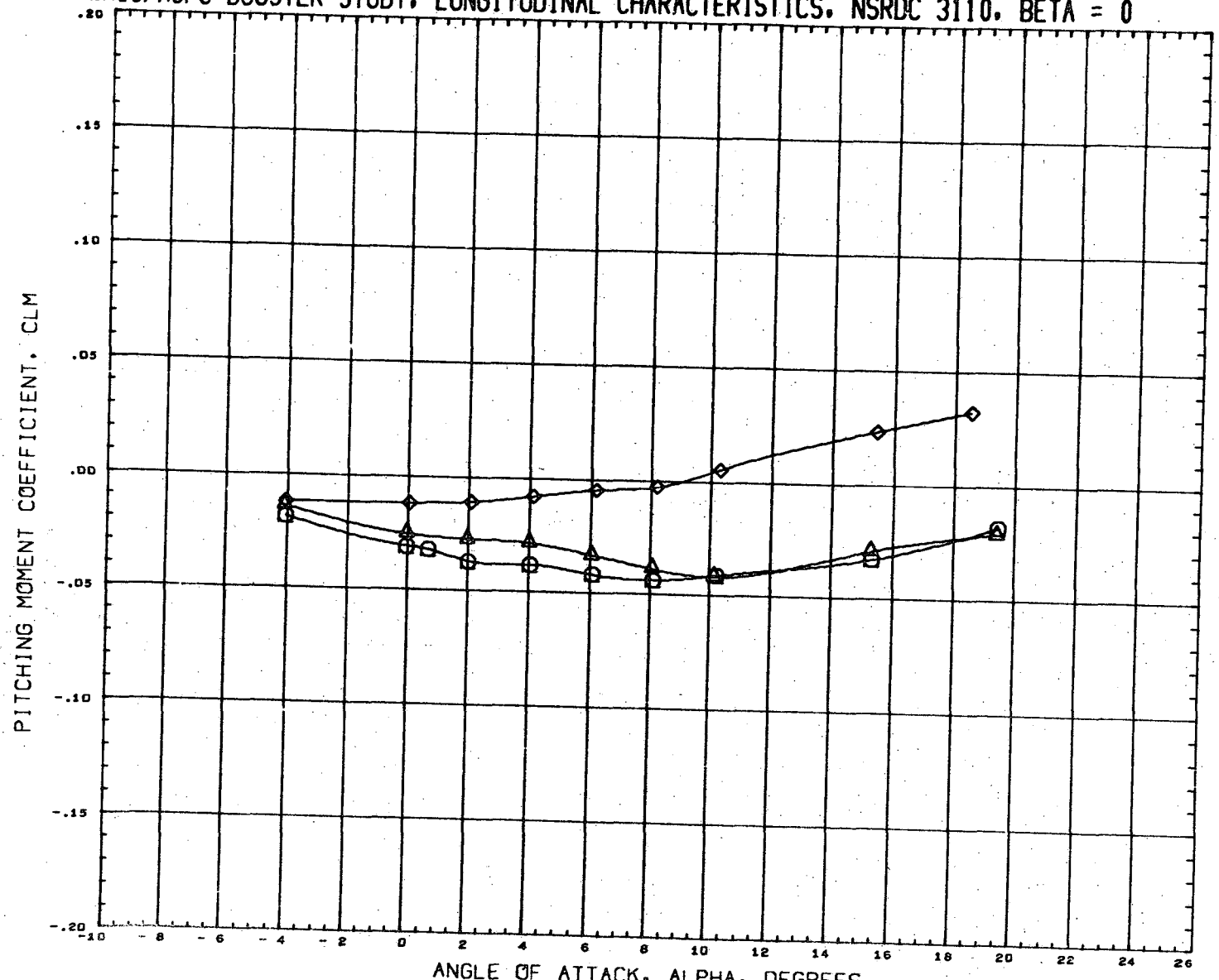
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2033)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2225)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2285)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2033)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2225)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2285)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

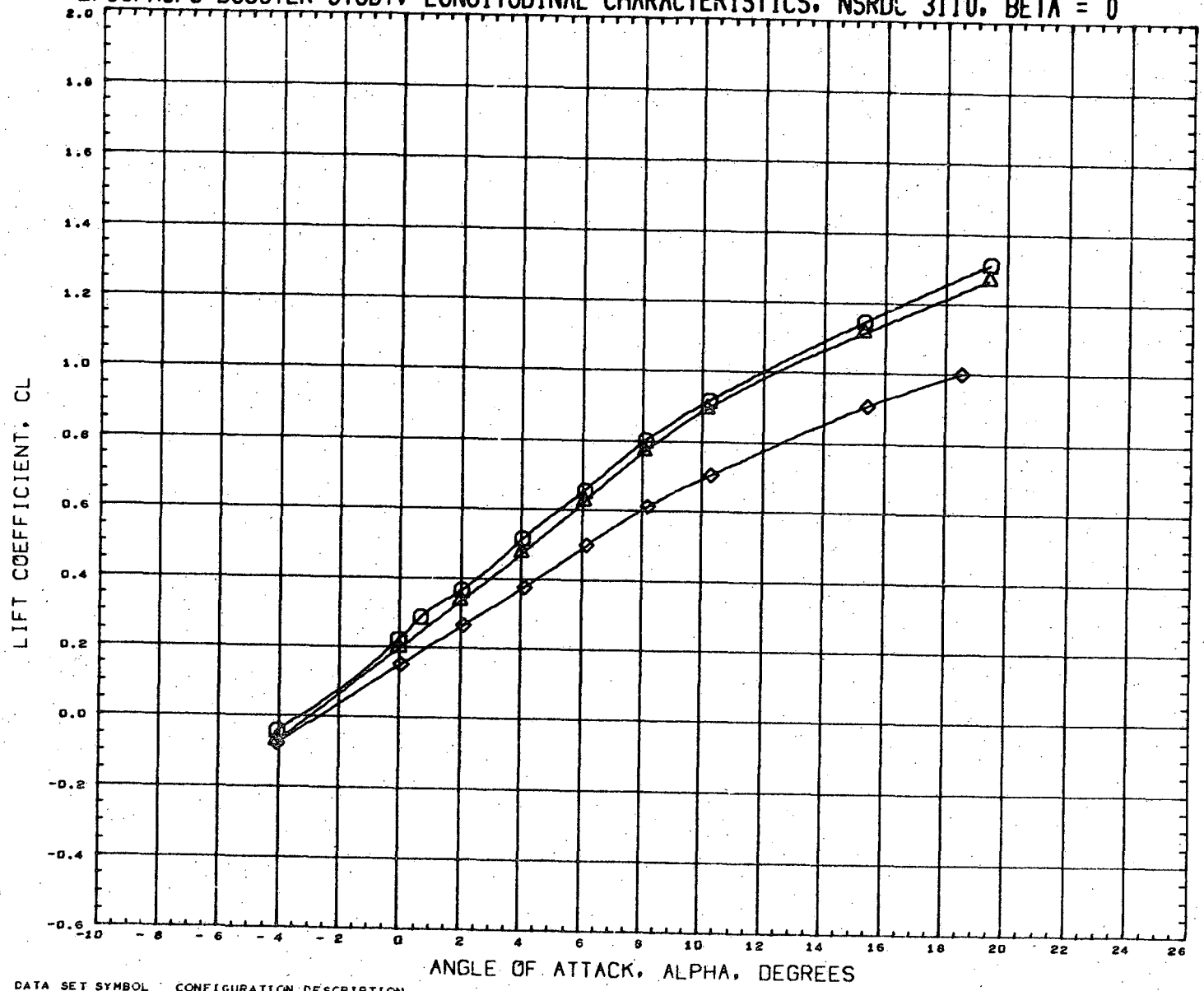
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

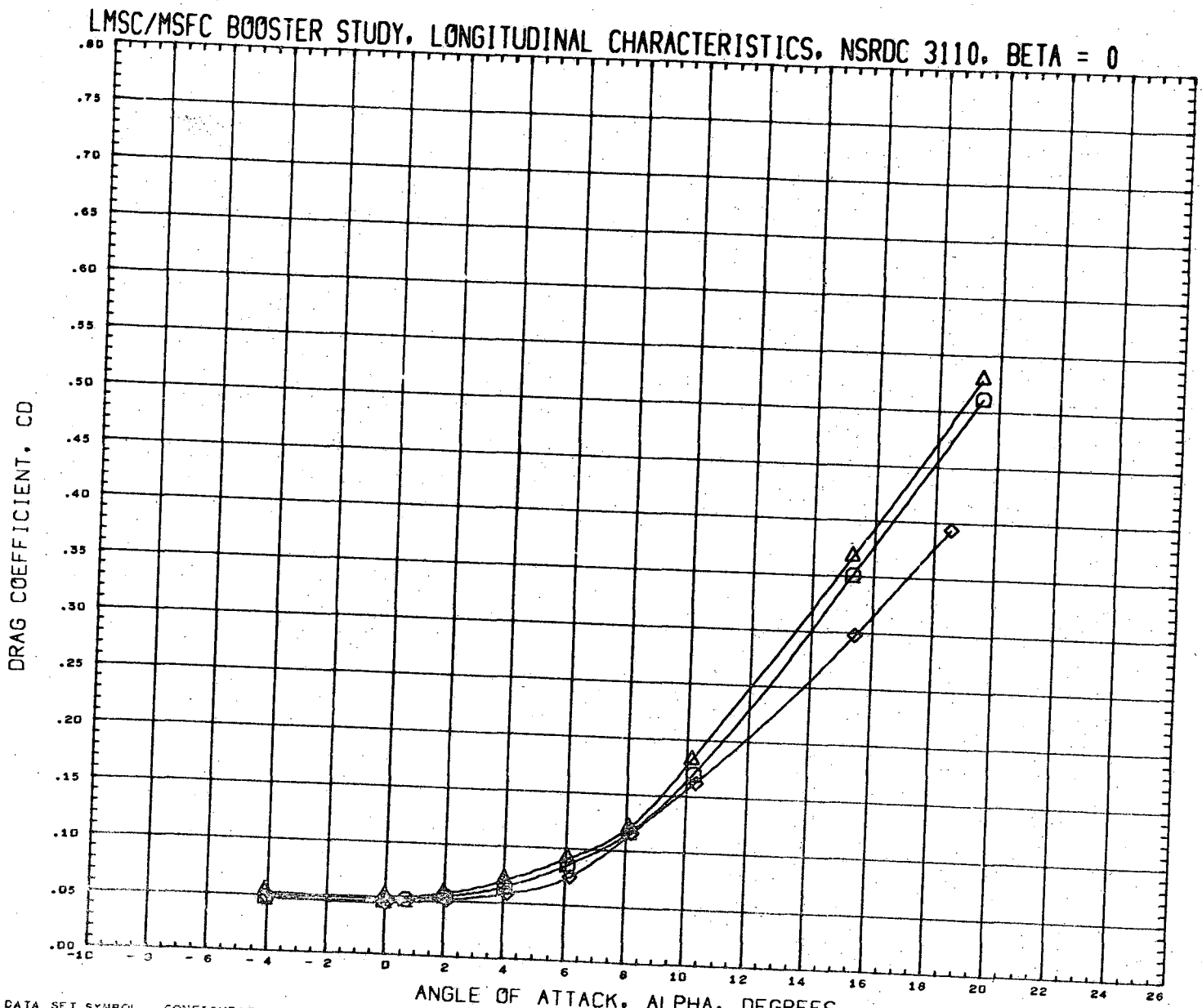


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2033)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2225)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2285)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.383



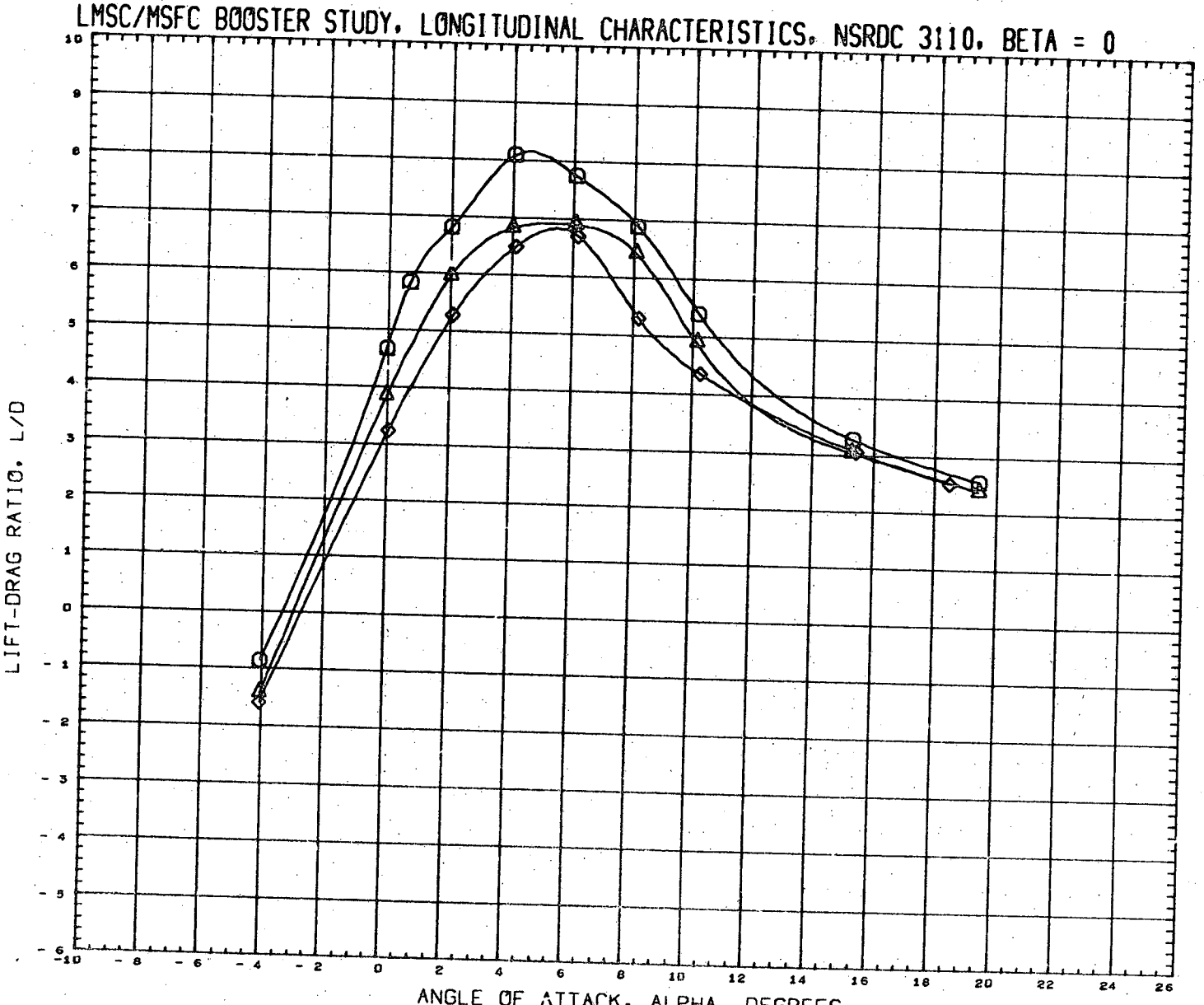
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2033) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2225) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2235) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDFOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

MACH 0.383

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

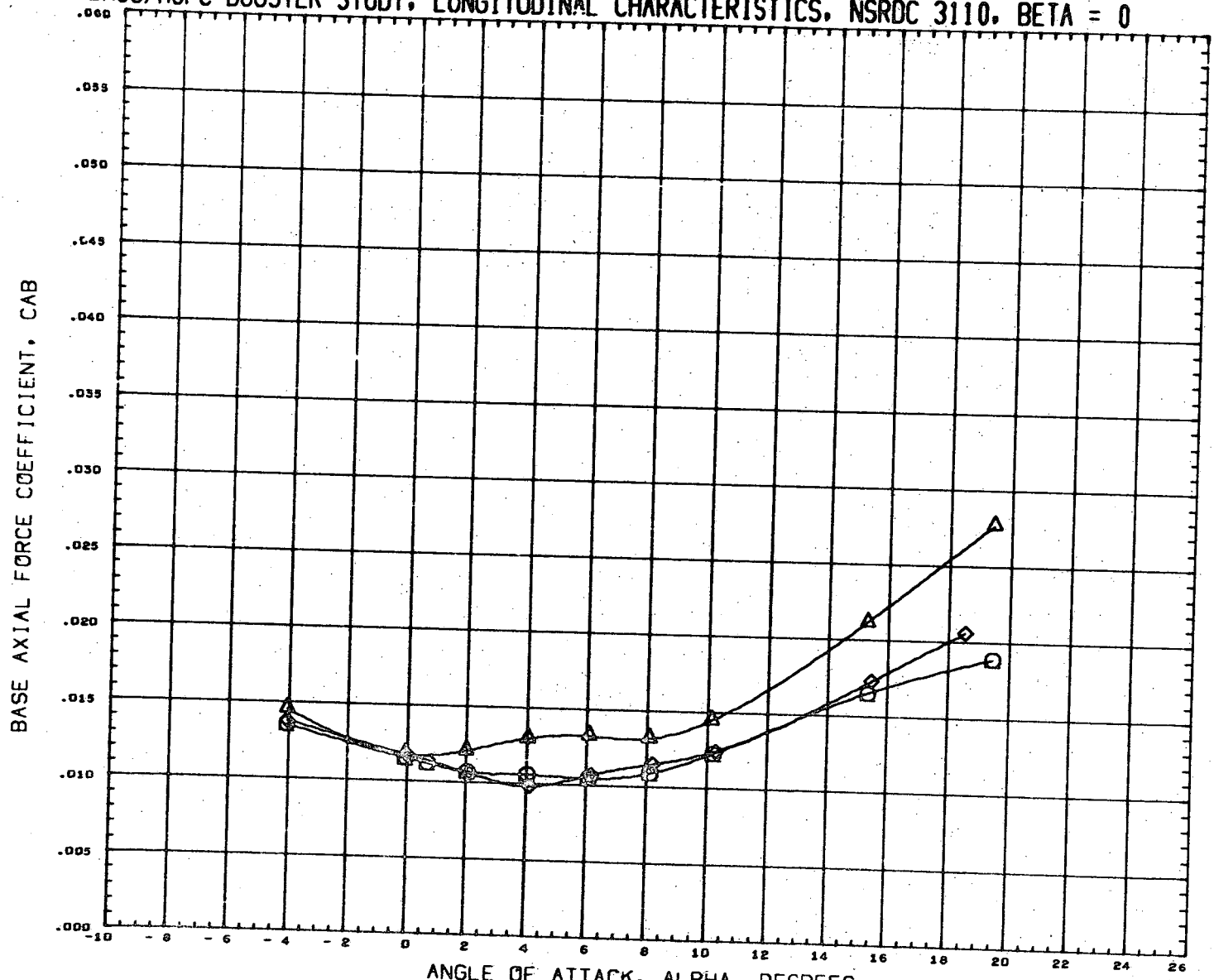


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2033) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2225) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2285) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.383



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2033)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2225)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2285)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

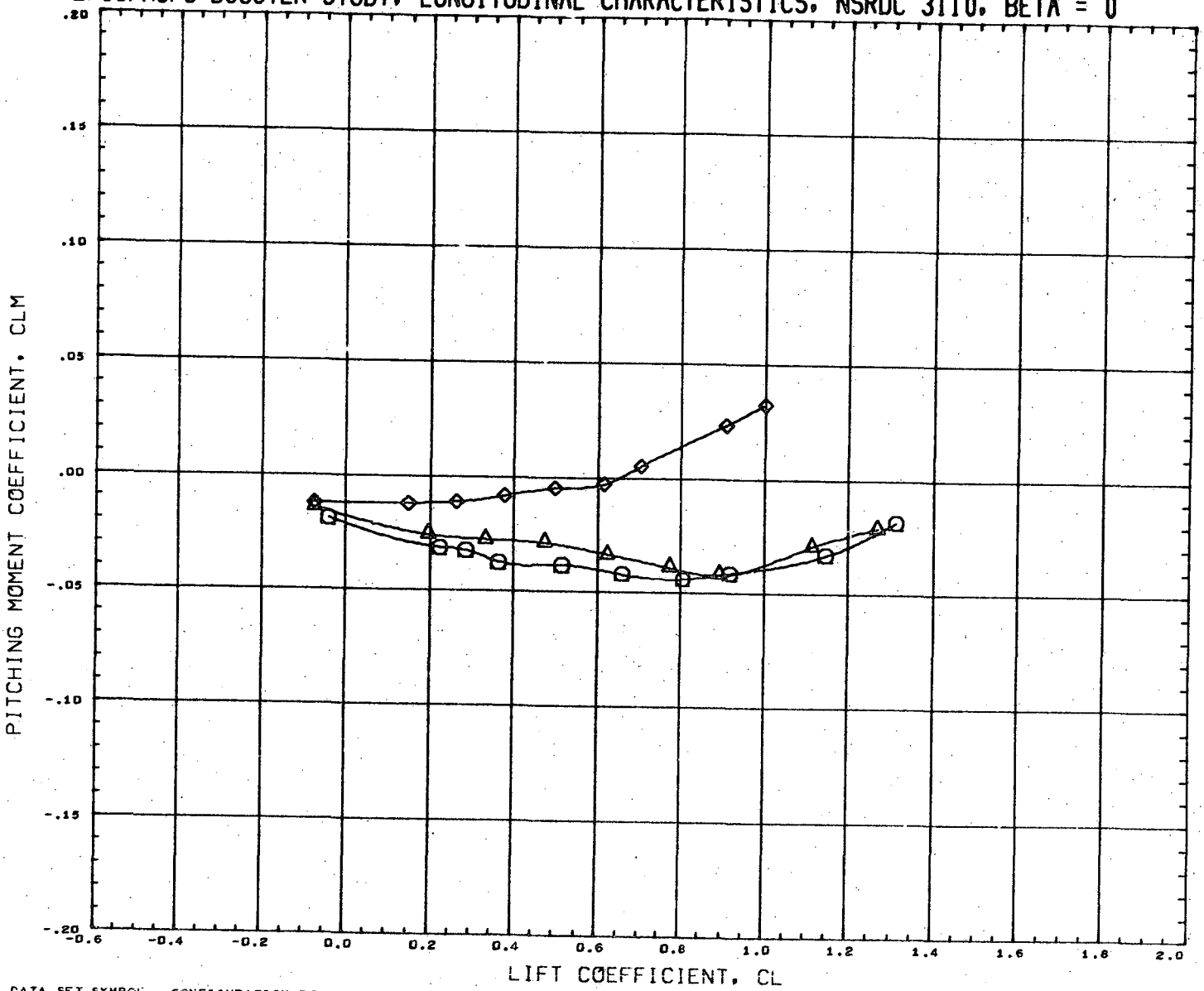
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

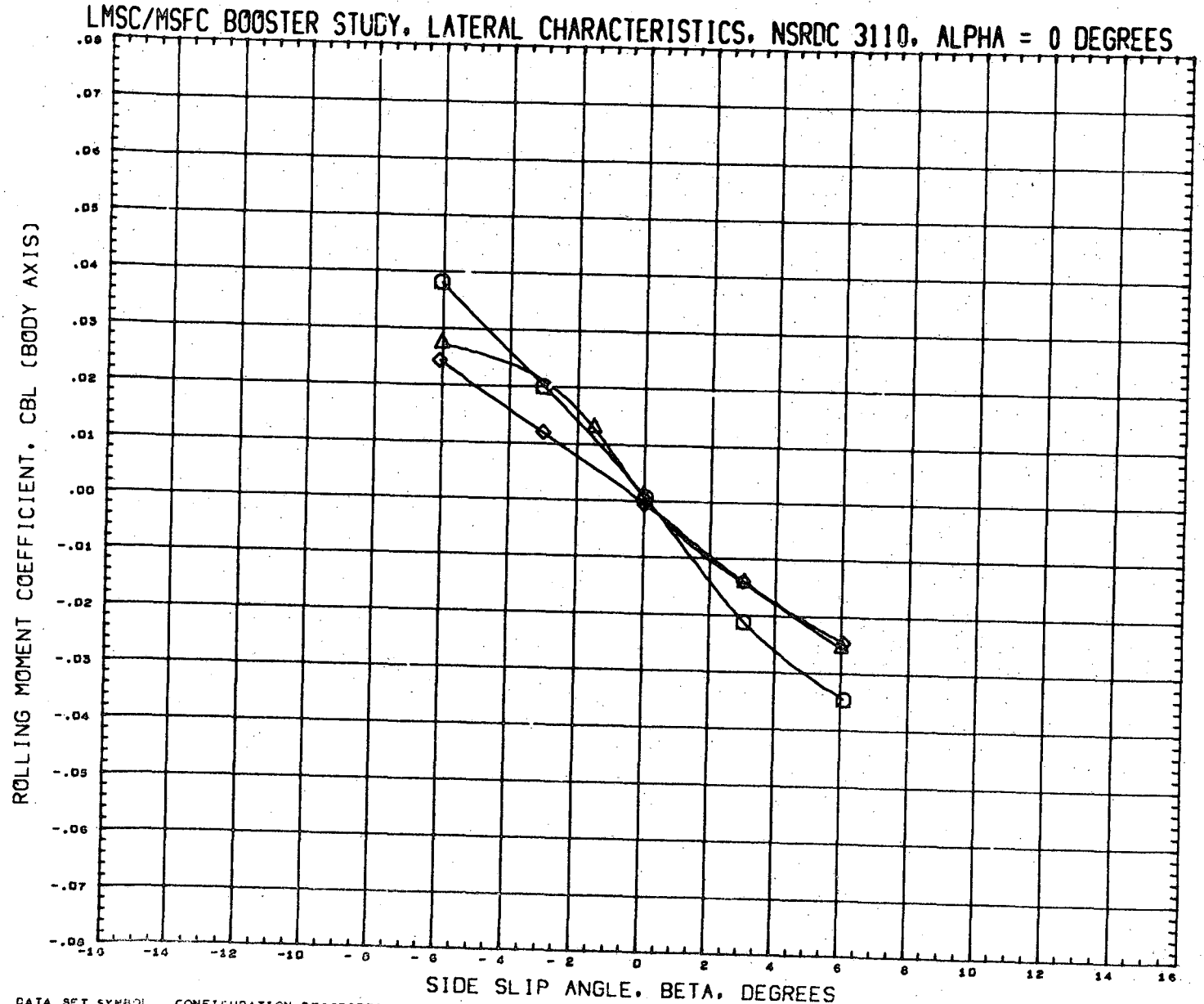


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2033)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2225)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2285)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.383

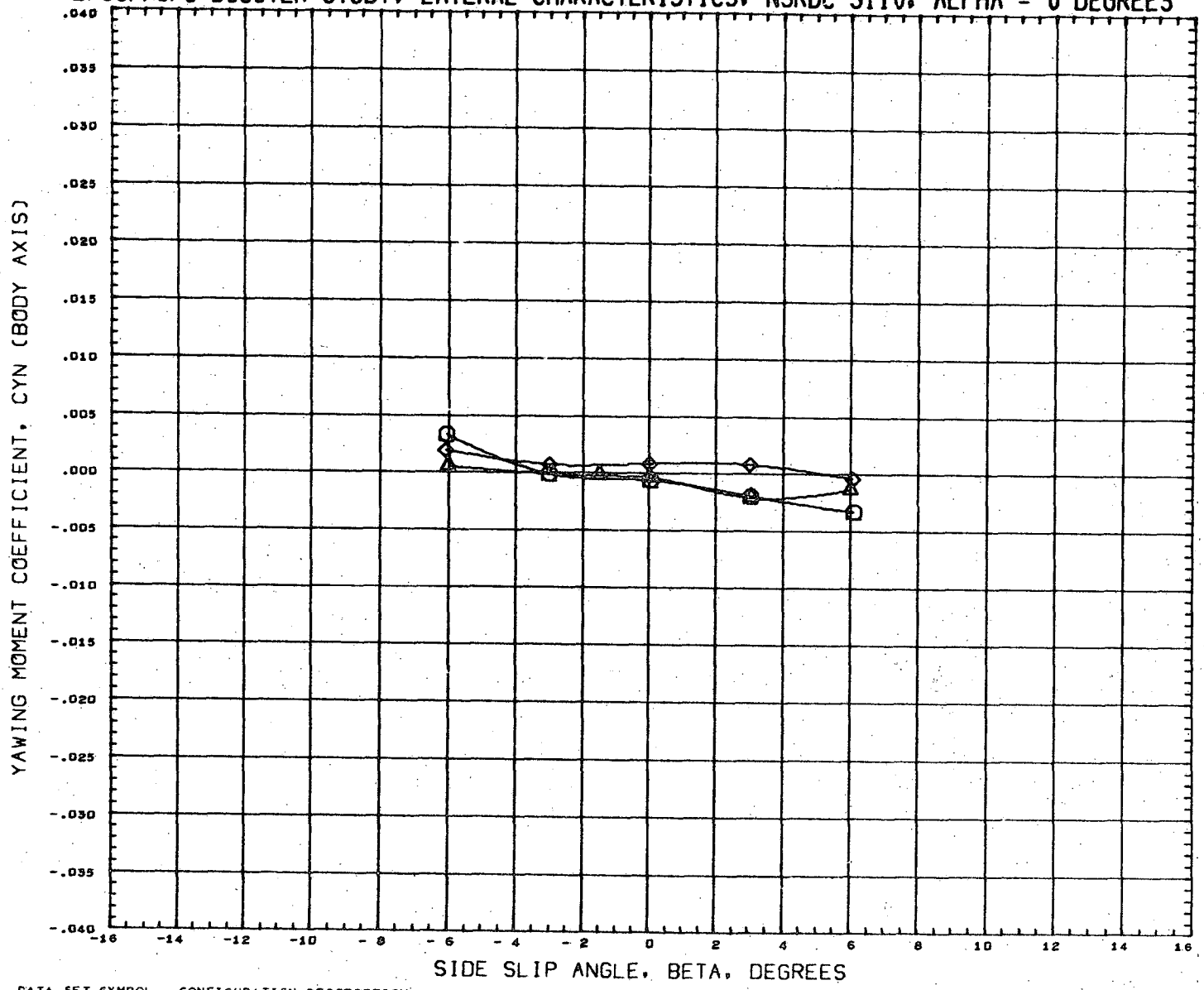


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2034)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	1.000
(RN2226)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000
(RN2285)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

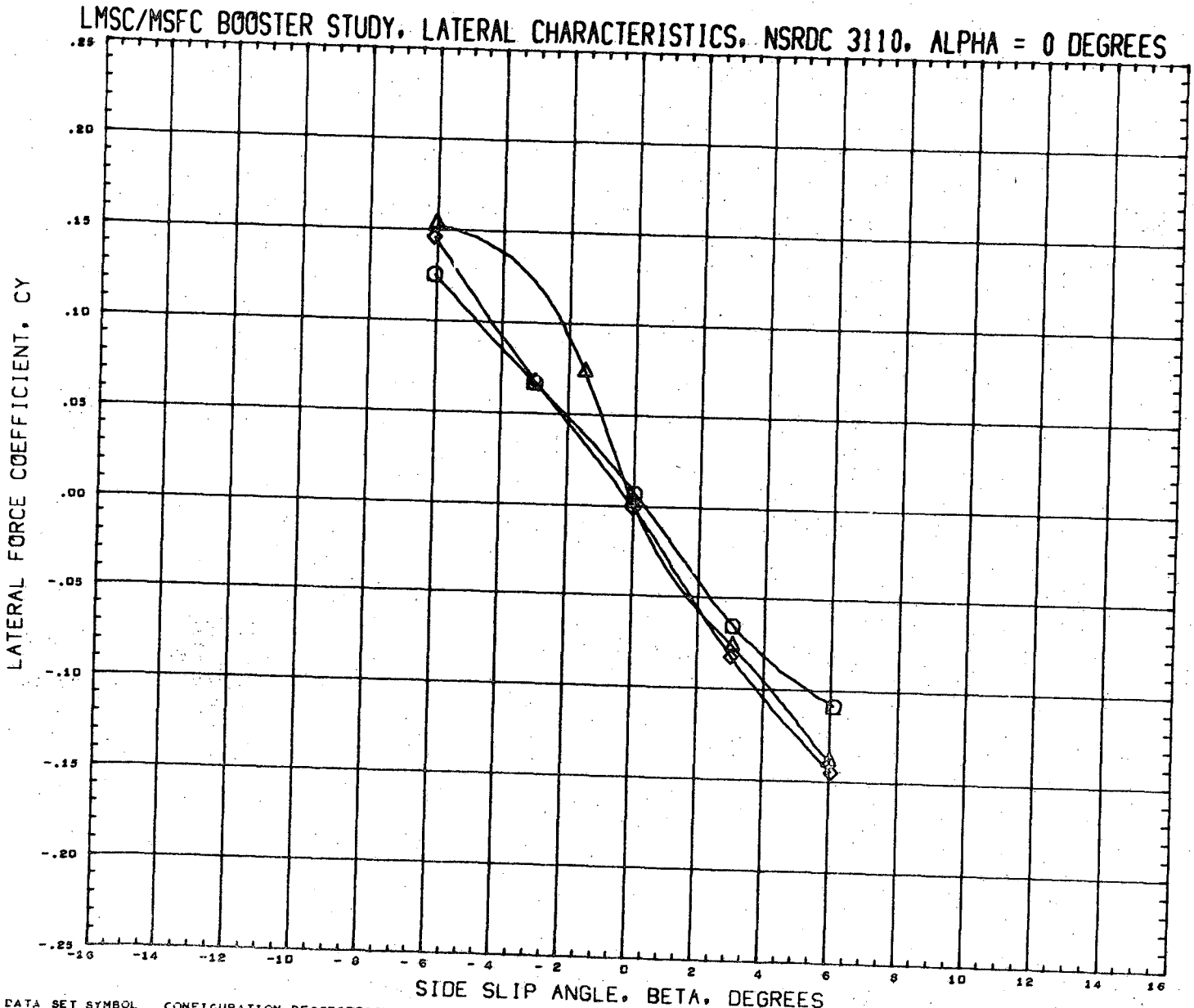
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2034) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	1.000
(RN2226) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000
(RN2286) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.361



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2034)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2236)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2236)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

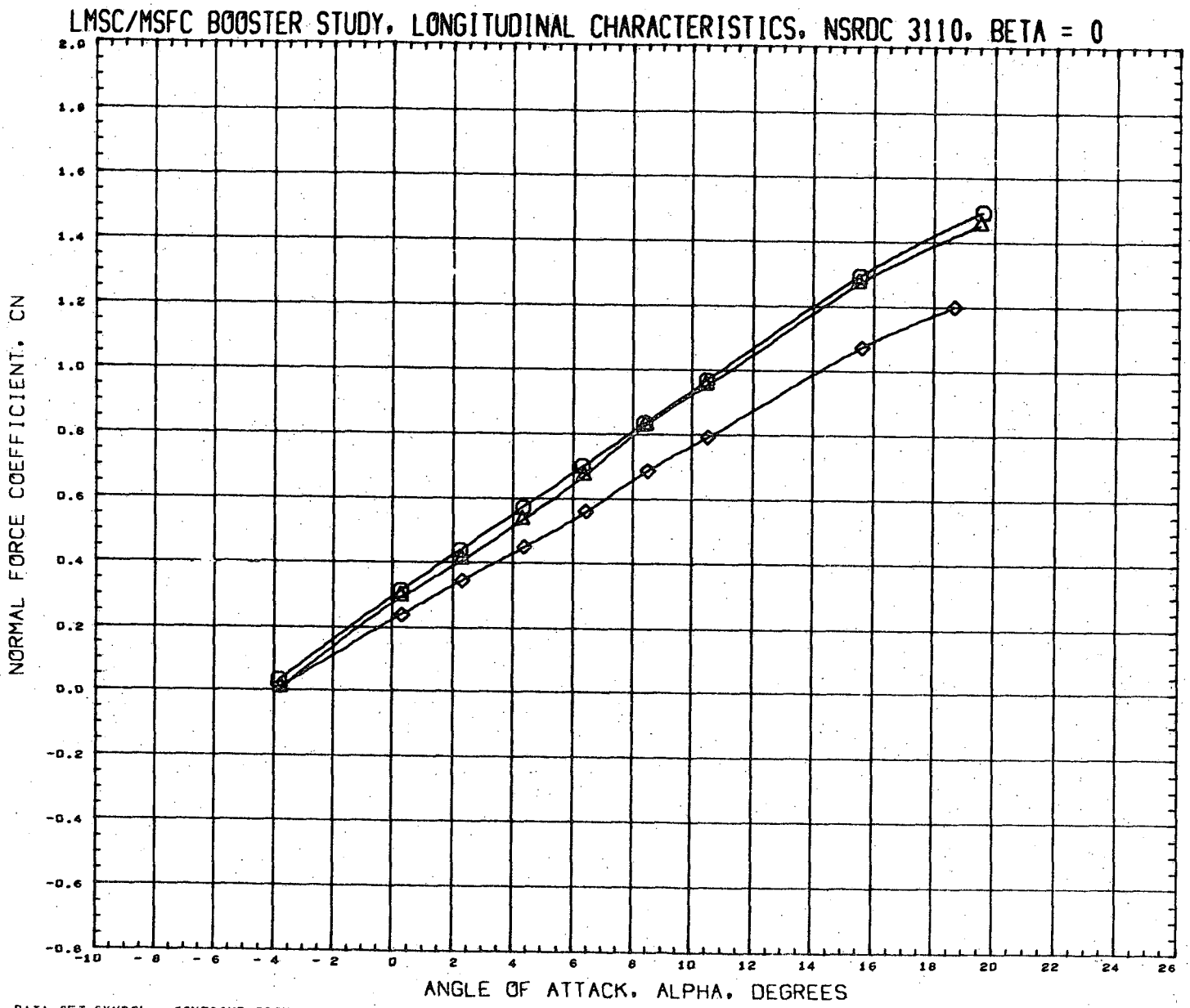
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

3

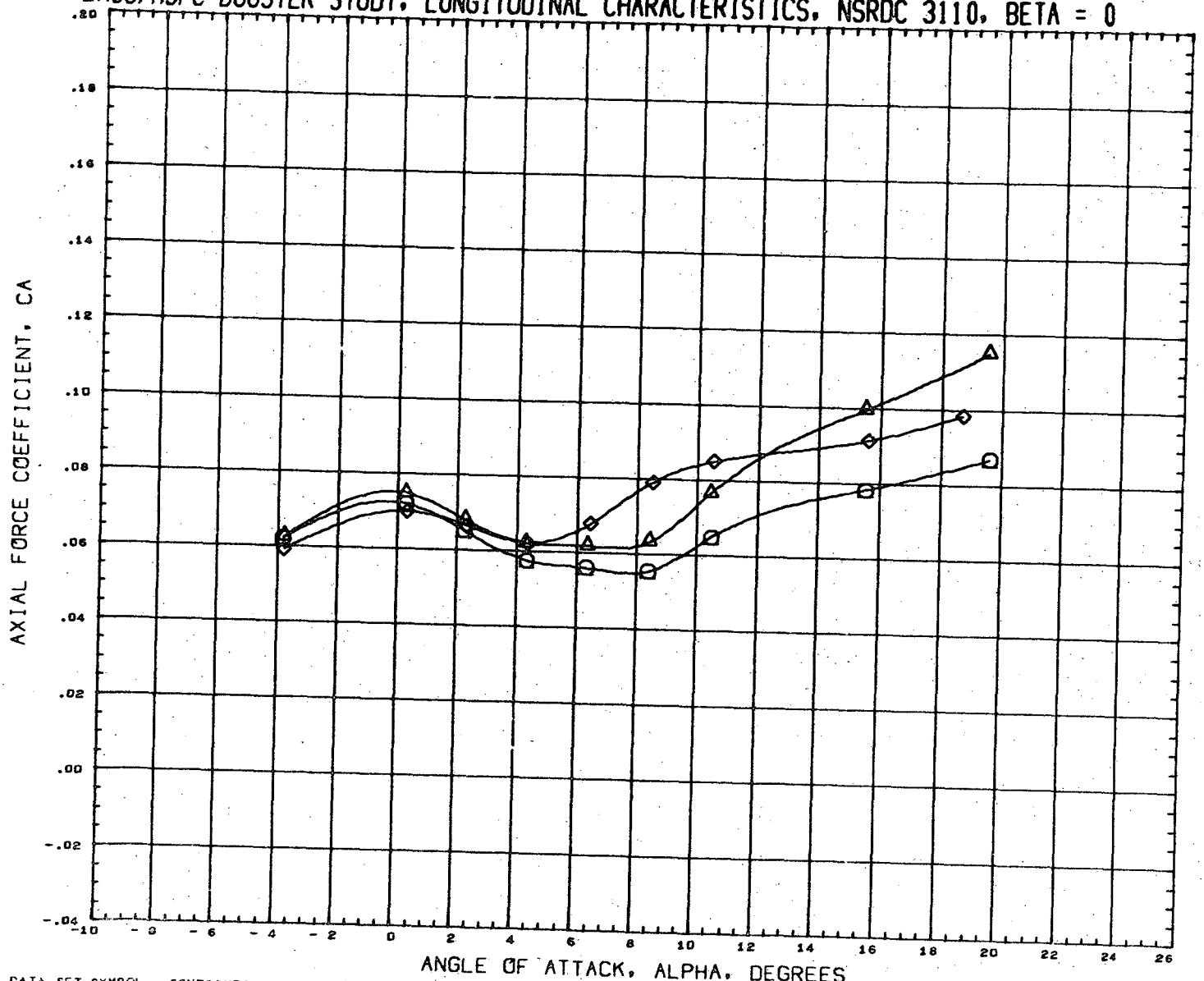


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2037)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000
(RN2229)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2289)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

.3A



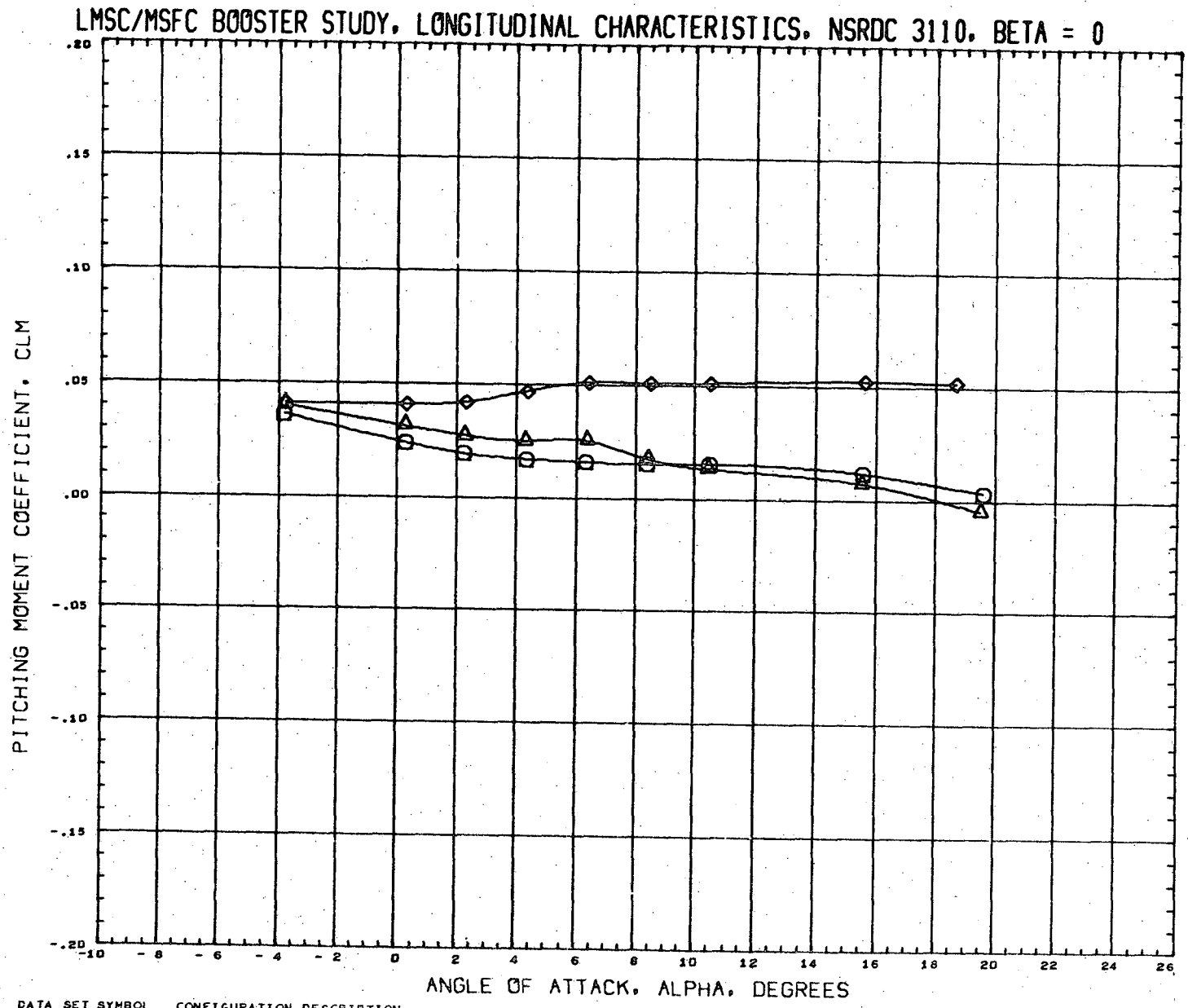
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2037)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2229)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2289)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION

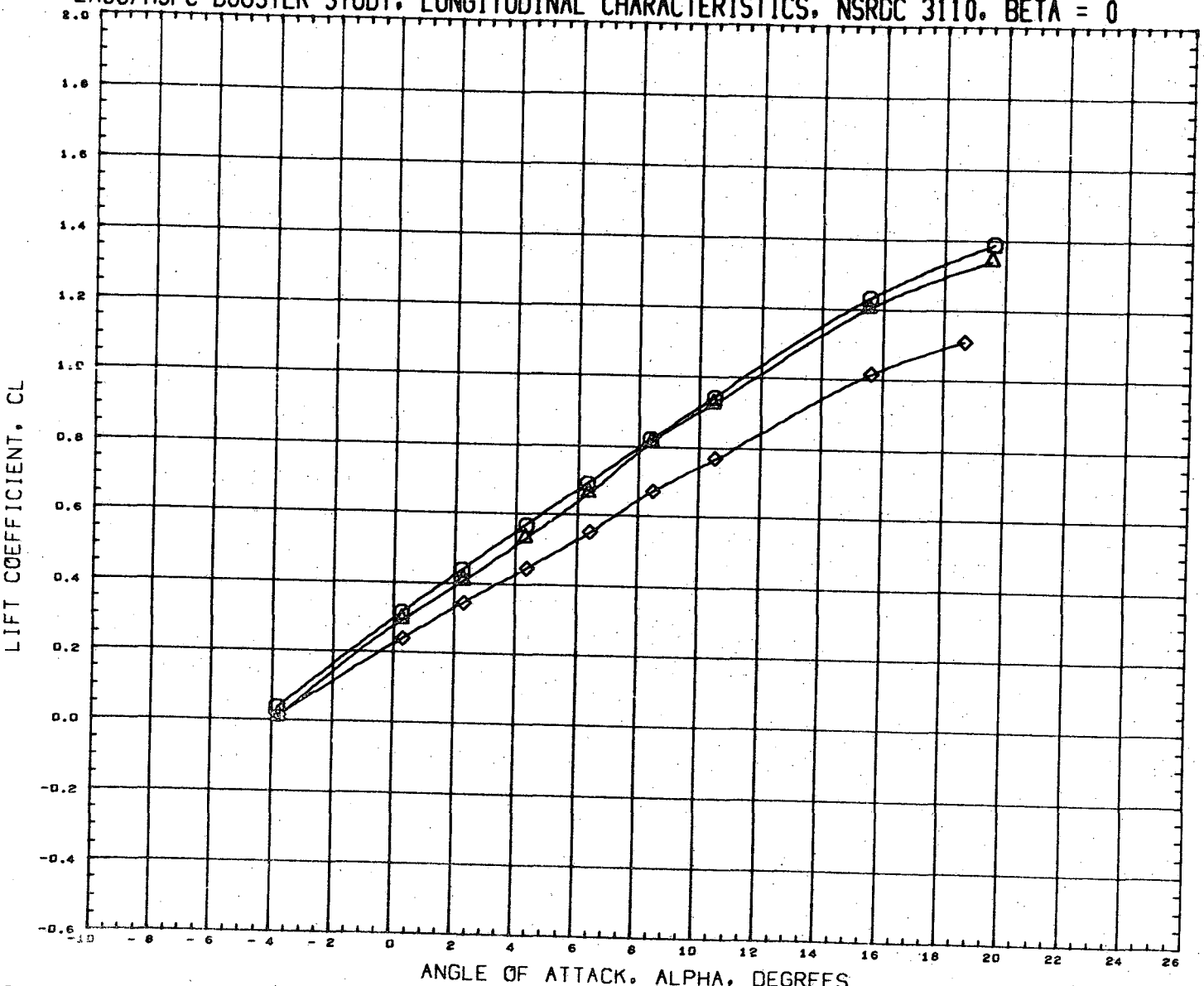
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2037)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000
(RN2229)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2289)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2037)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2229)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2289)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

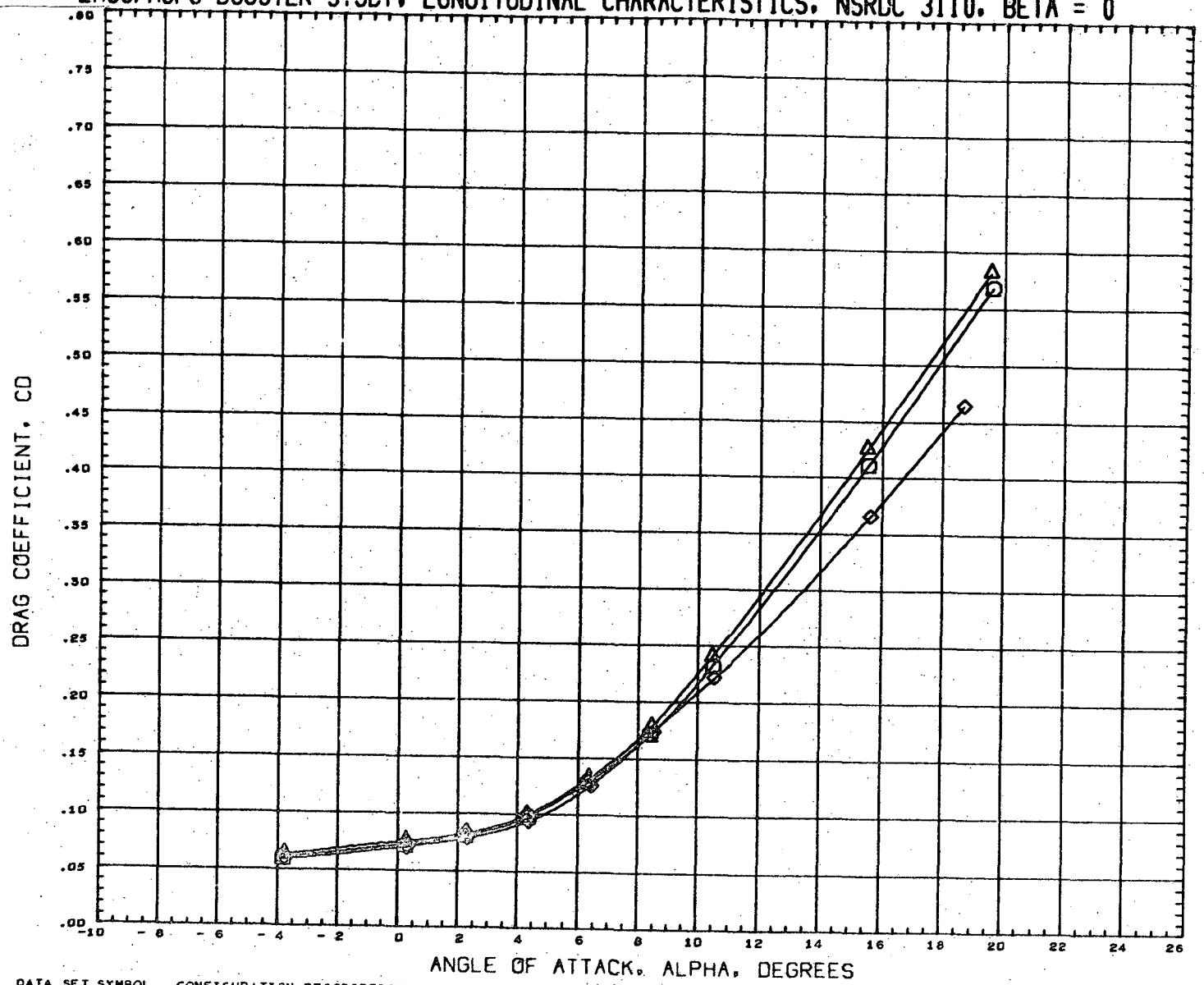
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

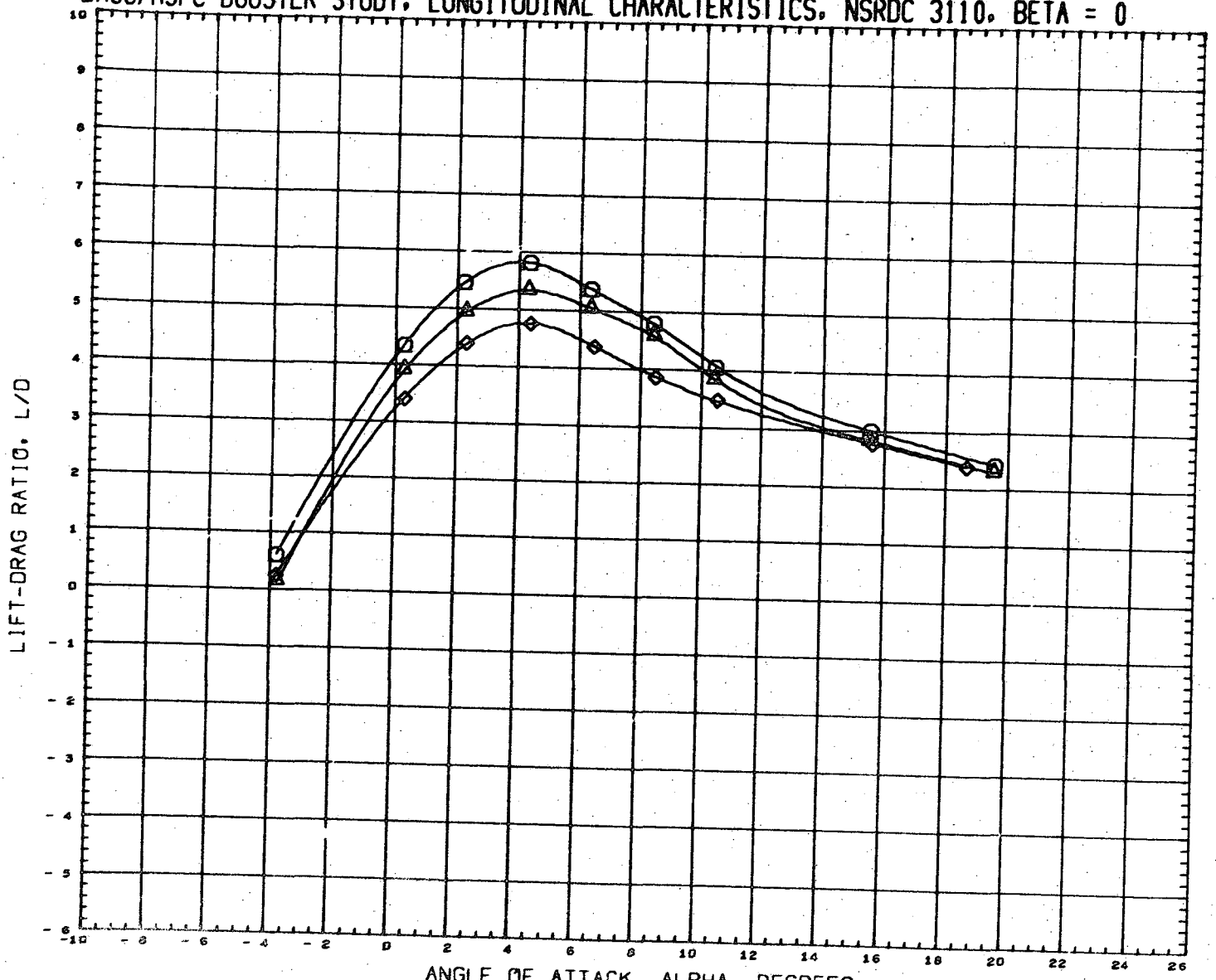


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2037)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000
(RN2229)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2289)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2037)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2229)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2239)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

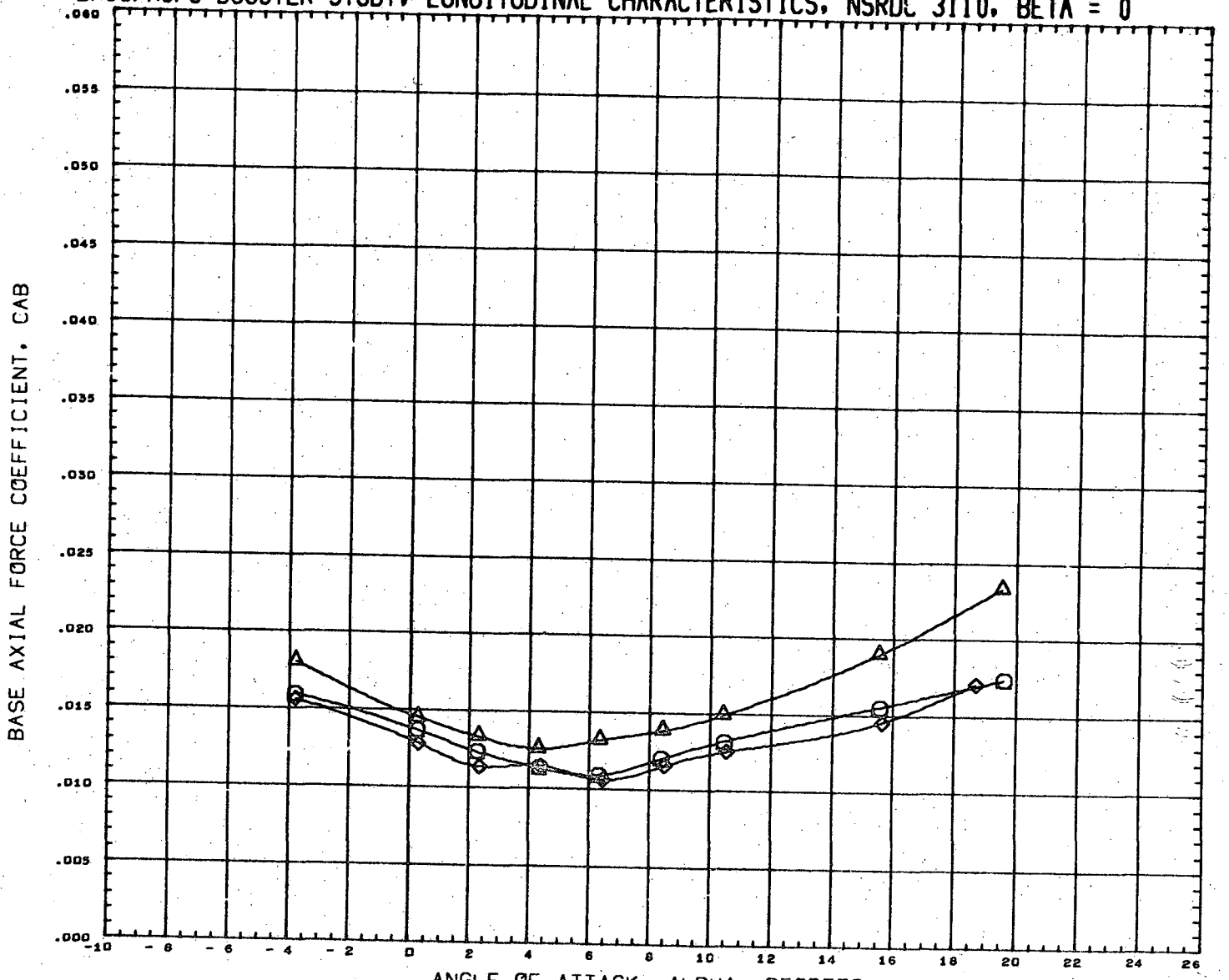
INCIDC	CNDFOS	INCIDW	WNGFOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

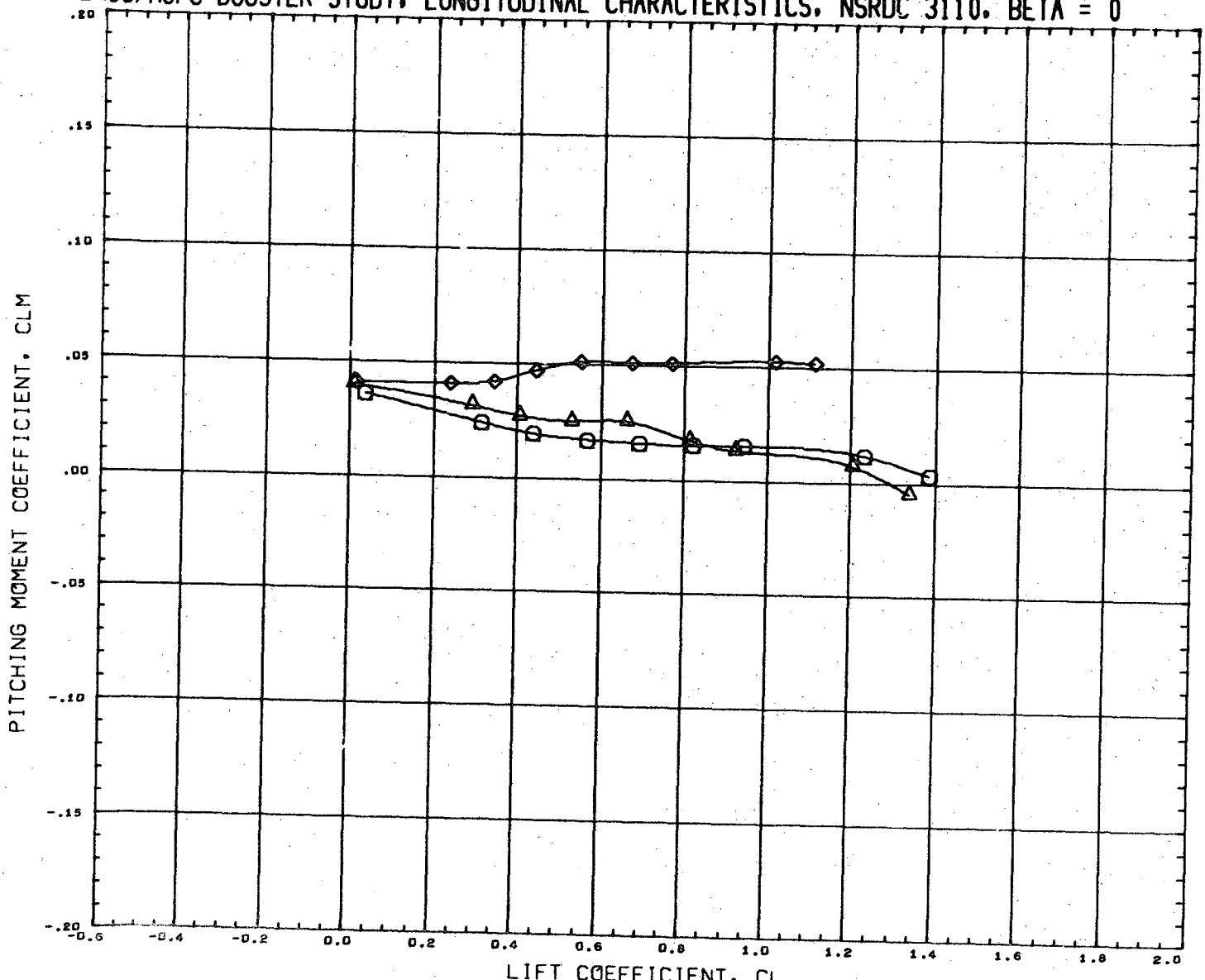
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2037) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000
(RN2229) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2269) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000

MACH 0.361

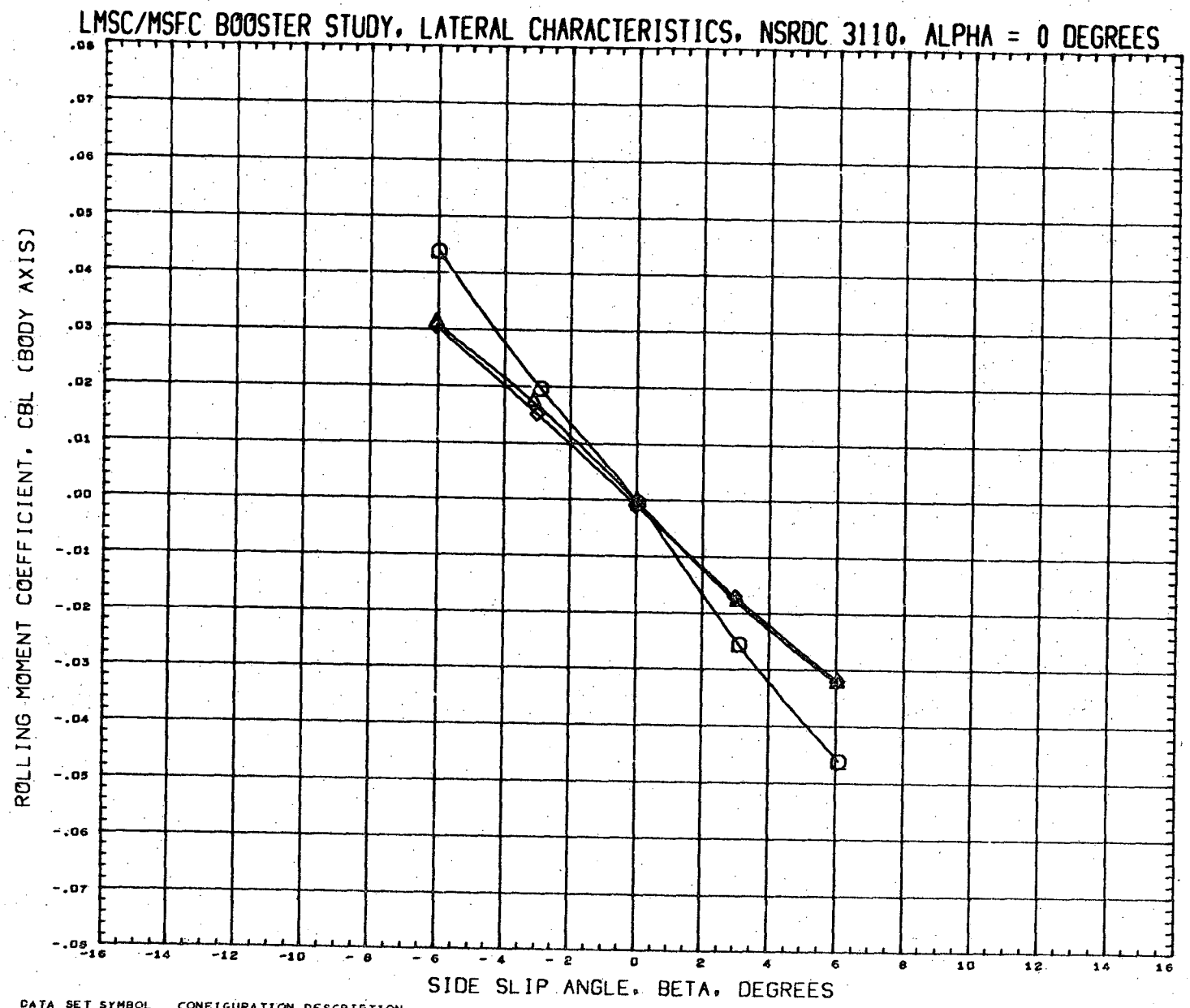
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2037)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000
(RN2229)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2289)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000

MACH 0.381

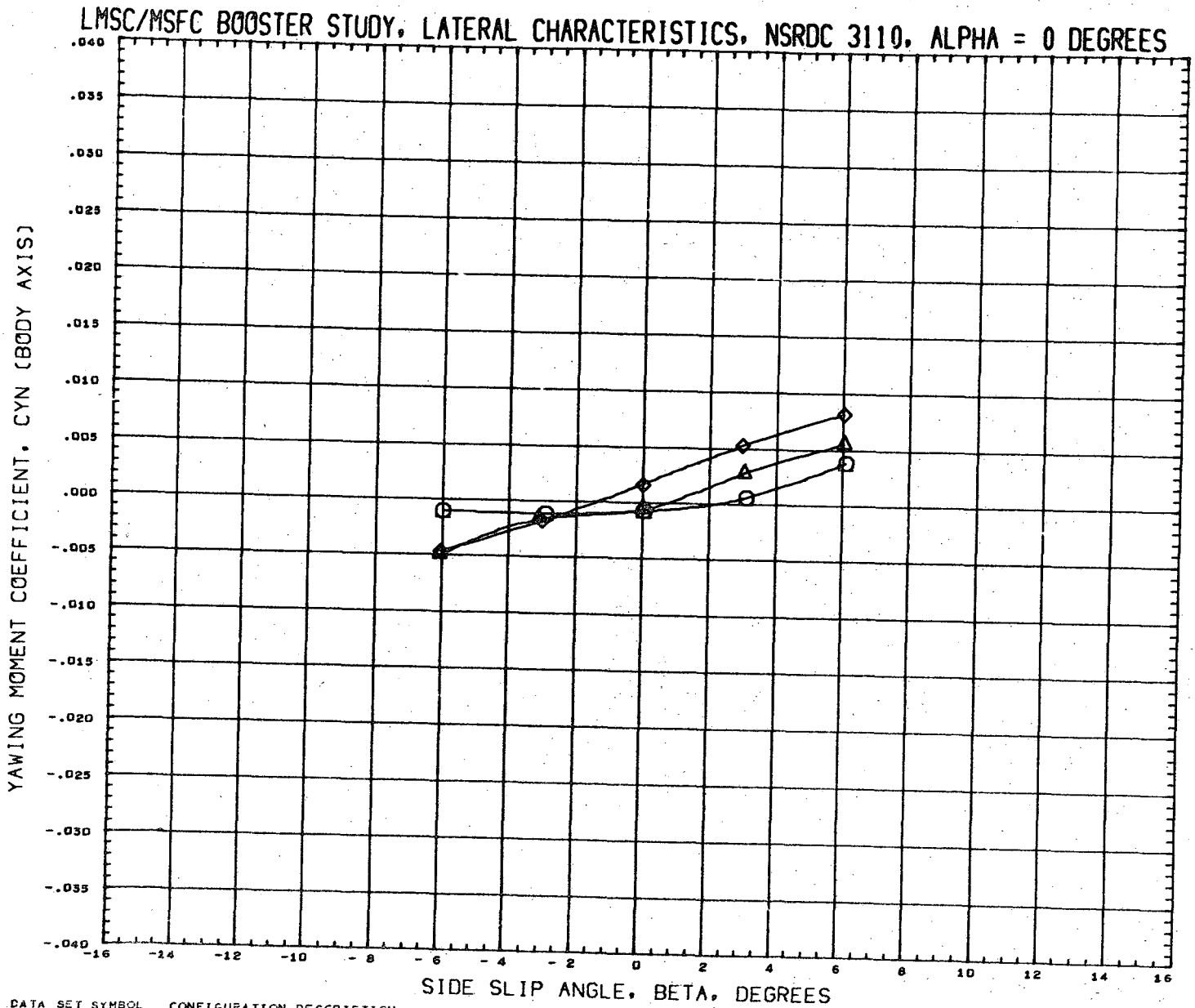
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2038) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000
(RN2230) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2290) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



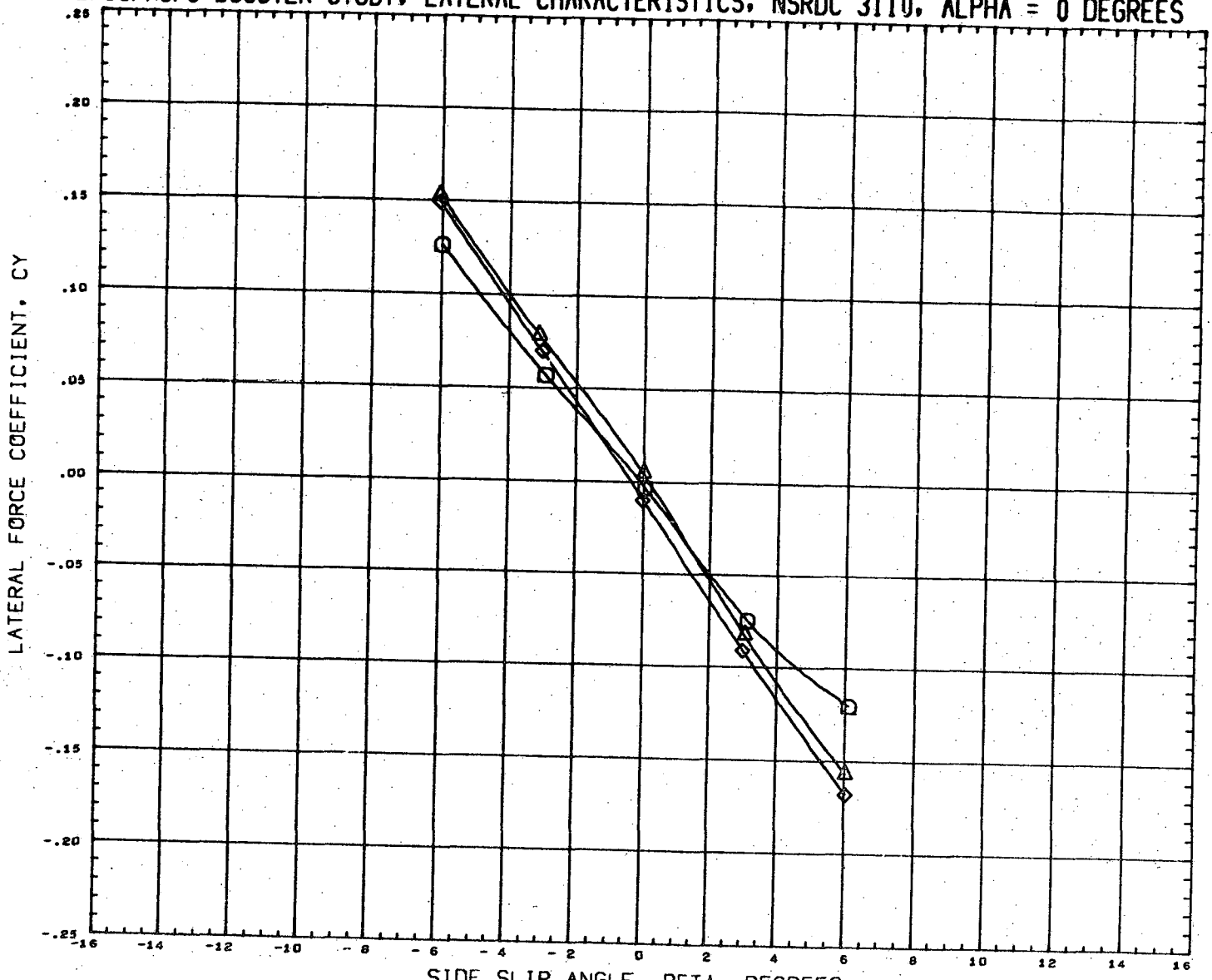
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2038) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2230) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2290) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

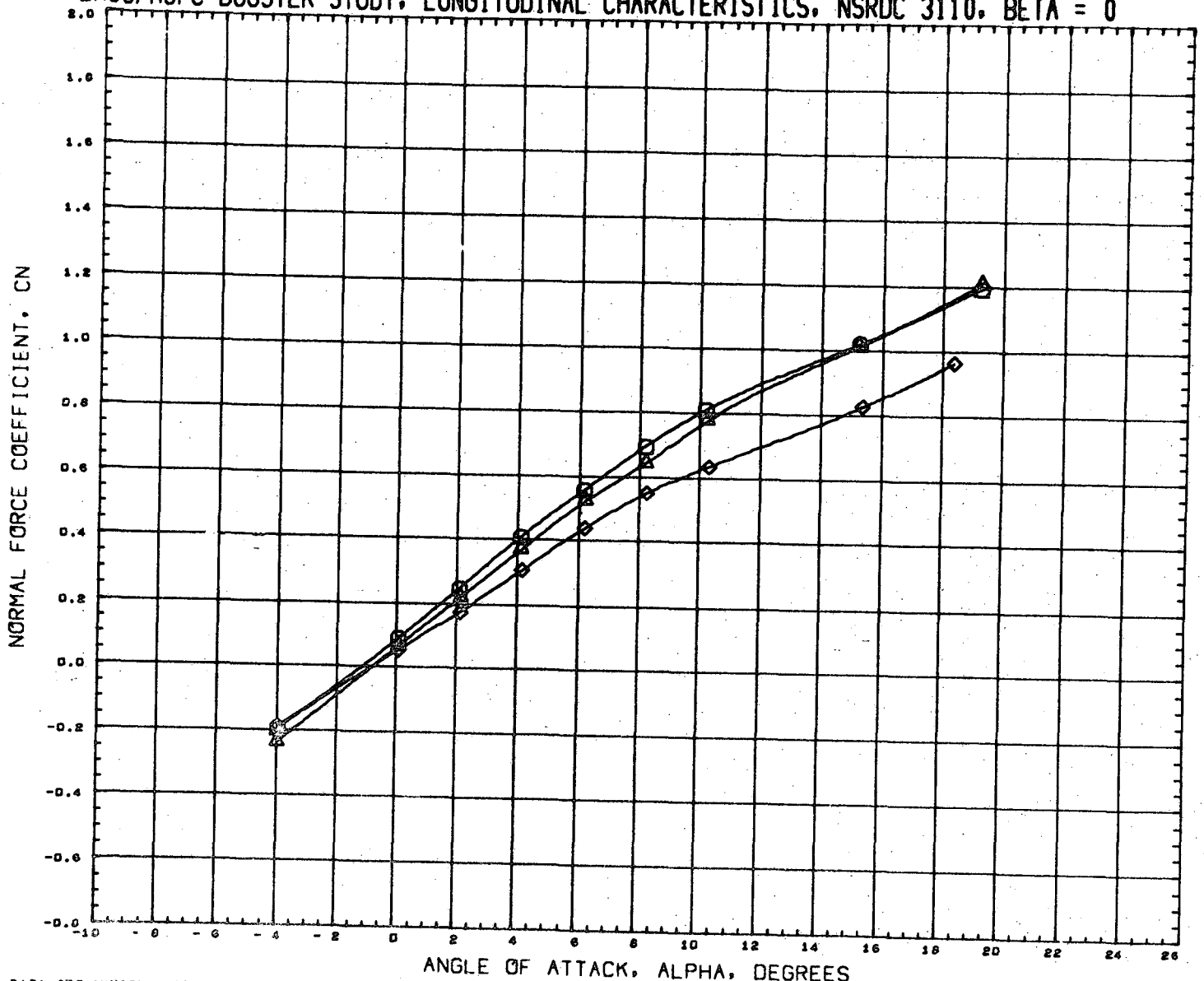
LMSC/MSFC BOOSTER STUDY. LATERAL CHARACTERISTICS. NSRDC 3110. ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2038)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000
(RN2230)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2290)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2009)	○	N3RDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2201)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2265)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

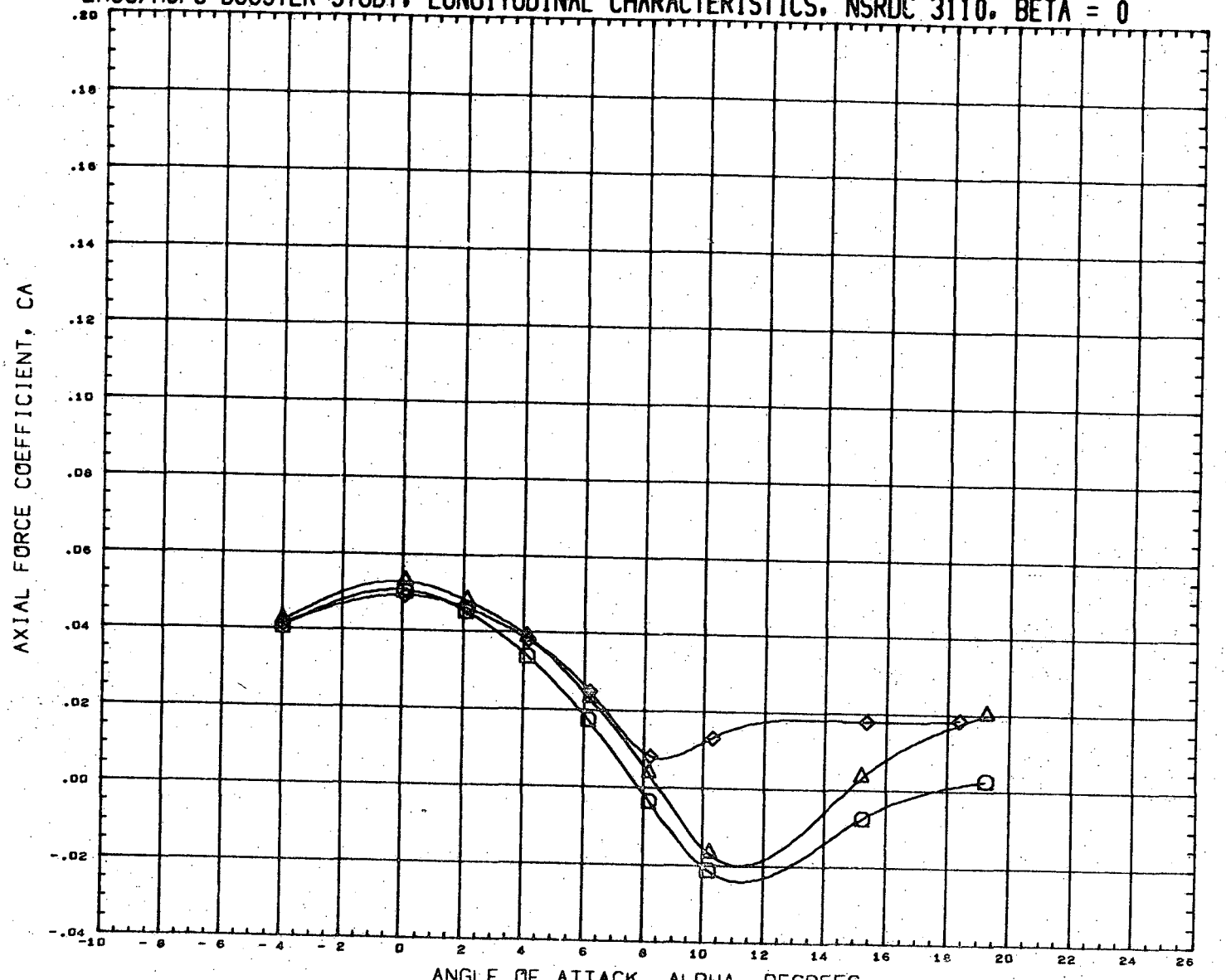
MACH 0.381

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

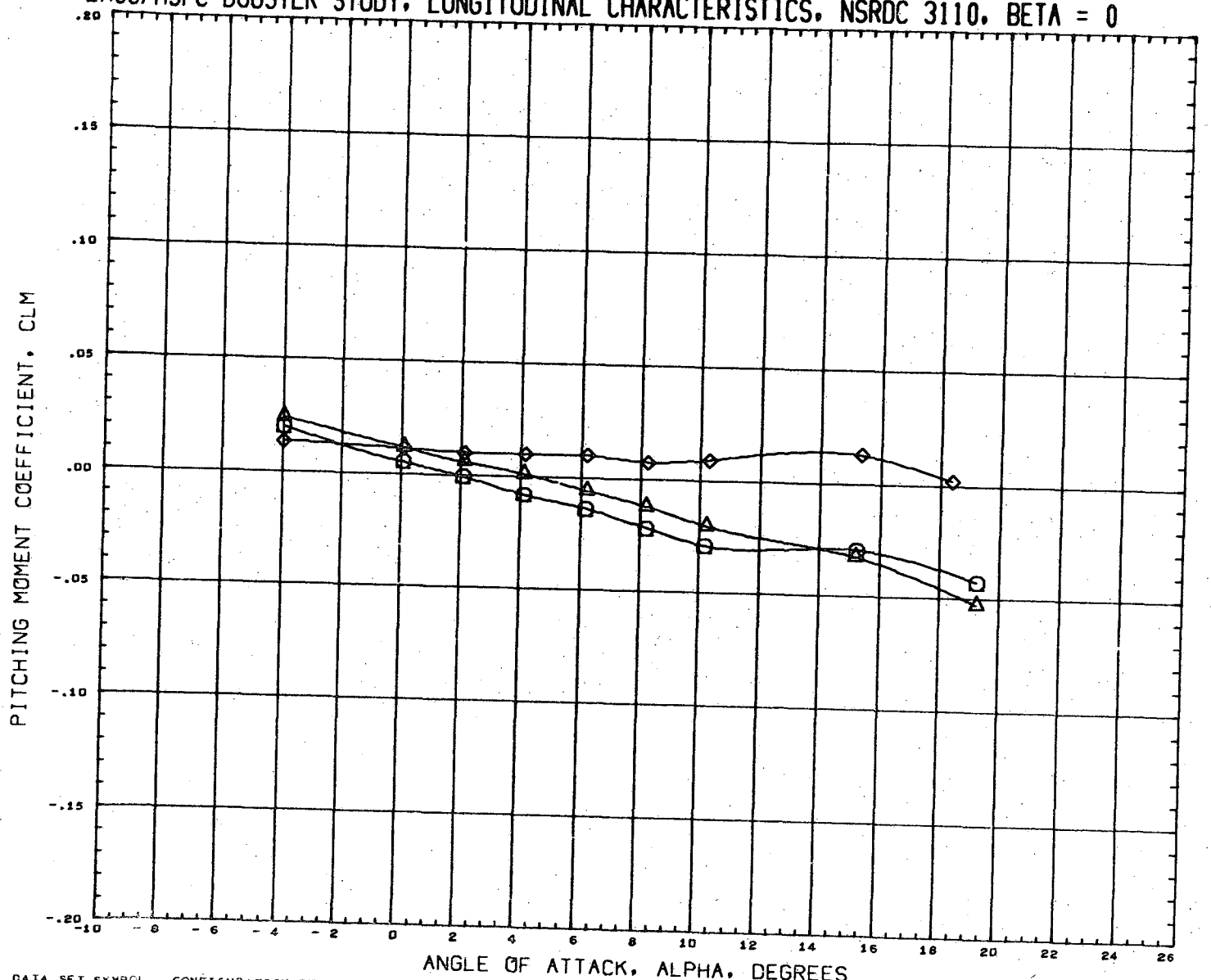


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2201)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2265)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2009) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2201) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2265) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

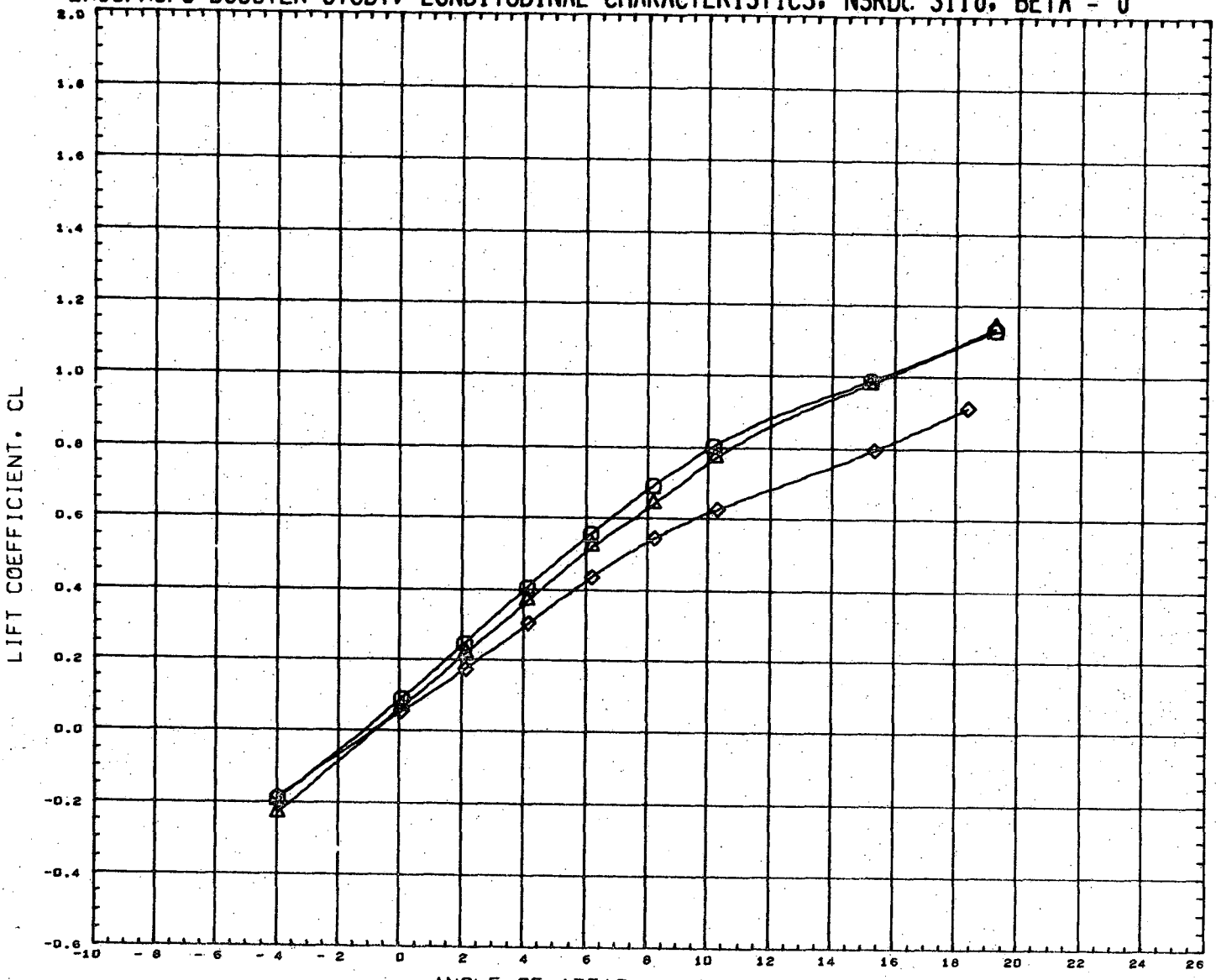
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

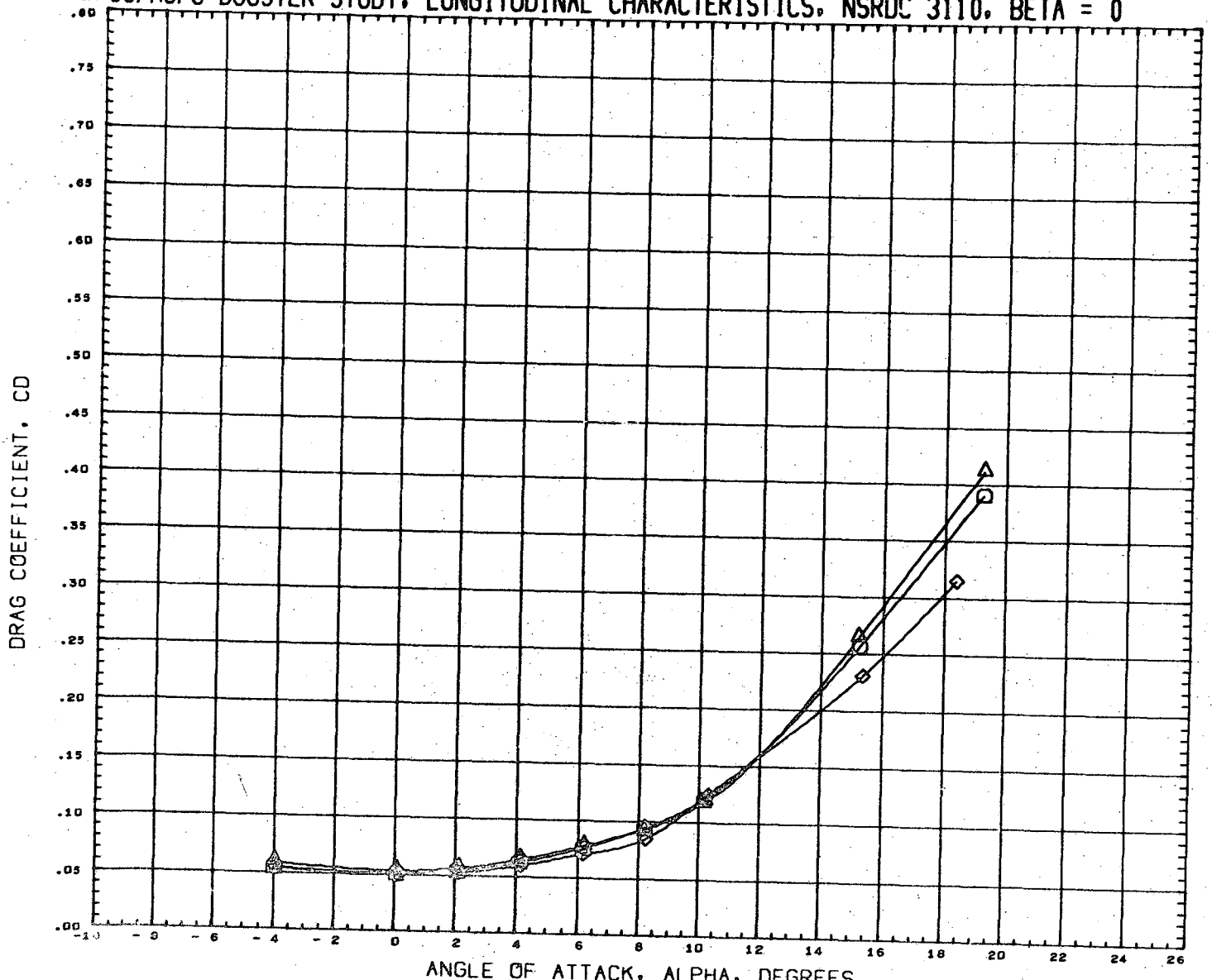
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2201)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000
(RN2265)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

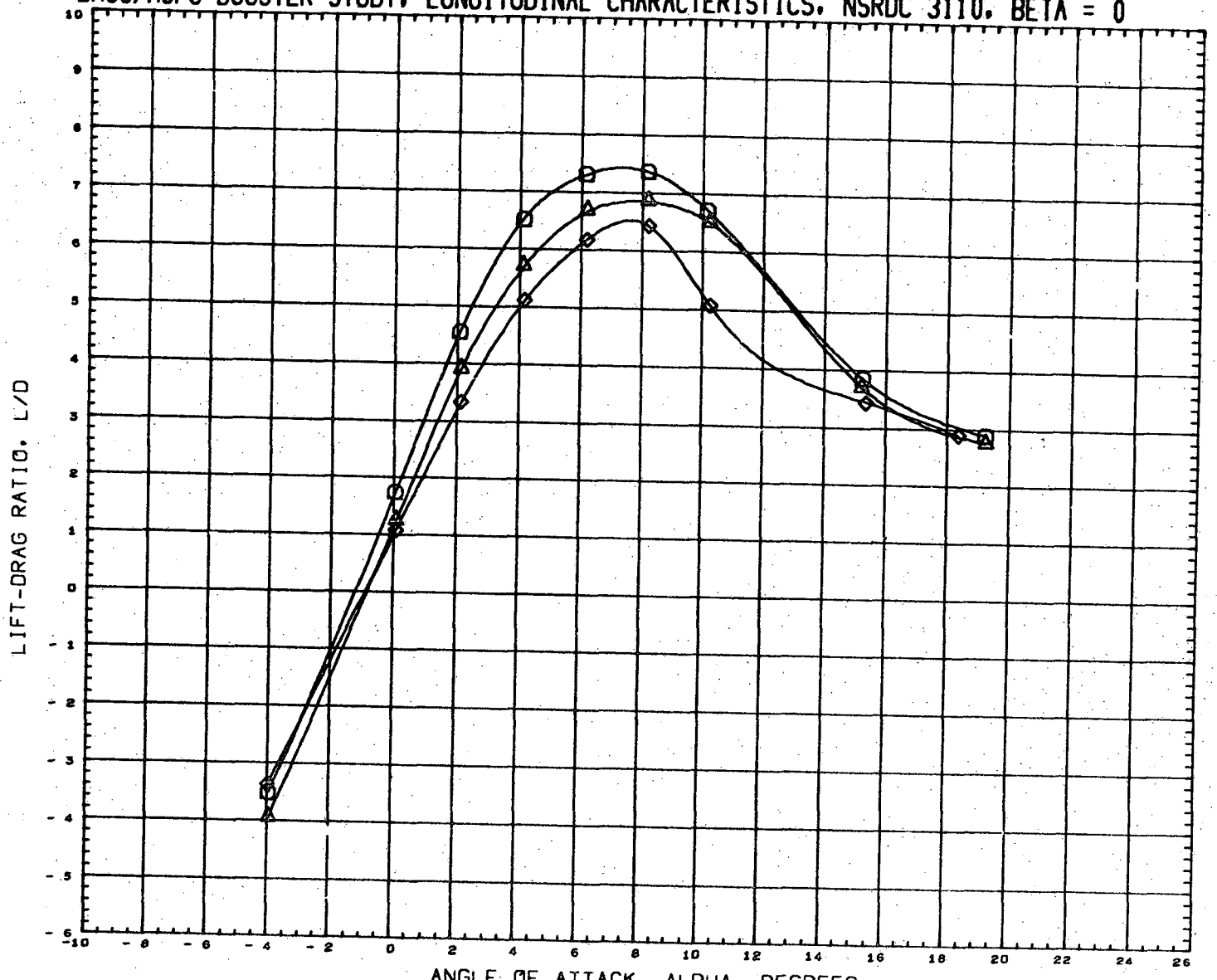


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2201)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000
(RN2255)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2201)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2265)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

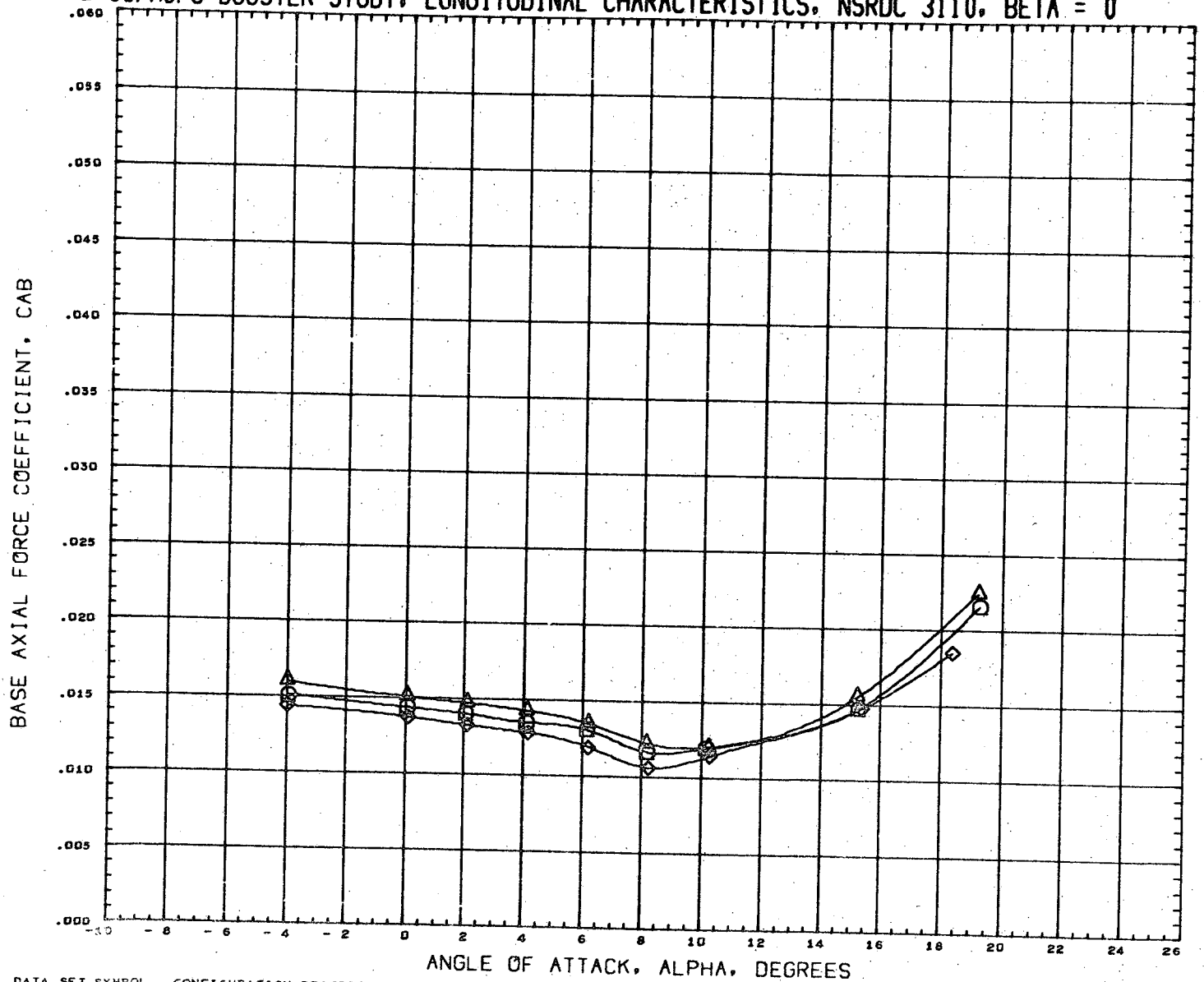
INCIDC	CNDFOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



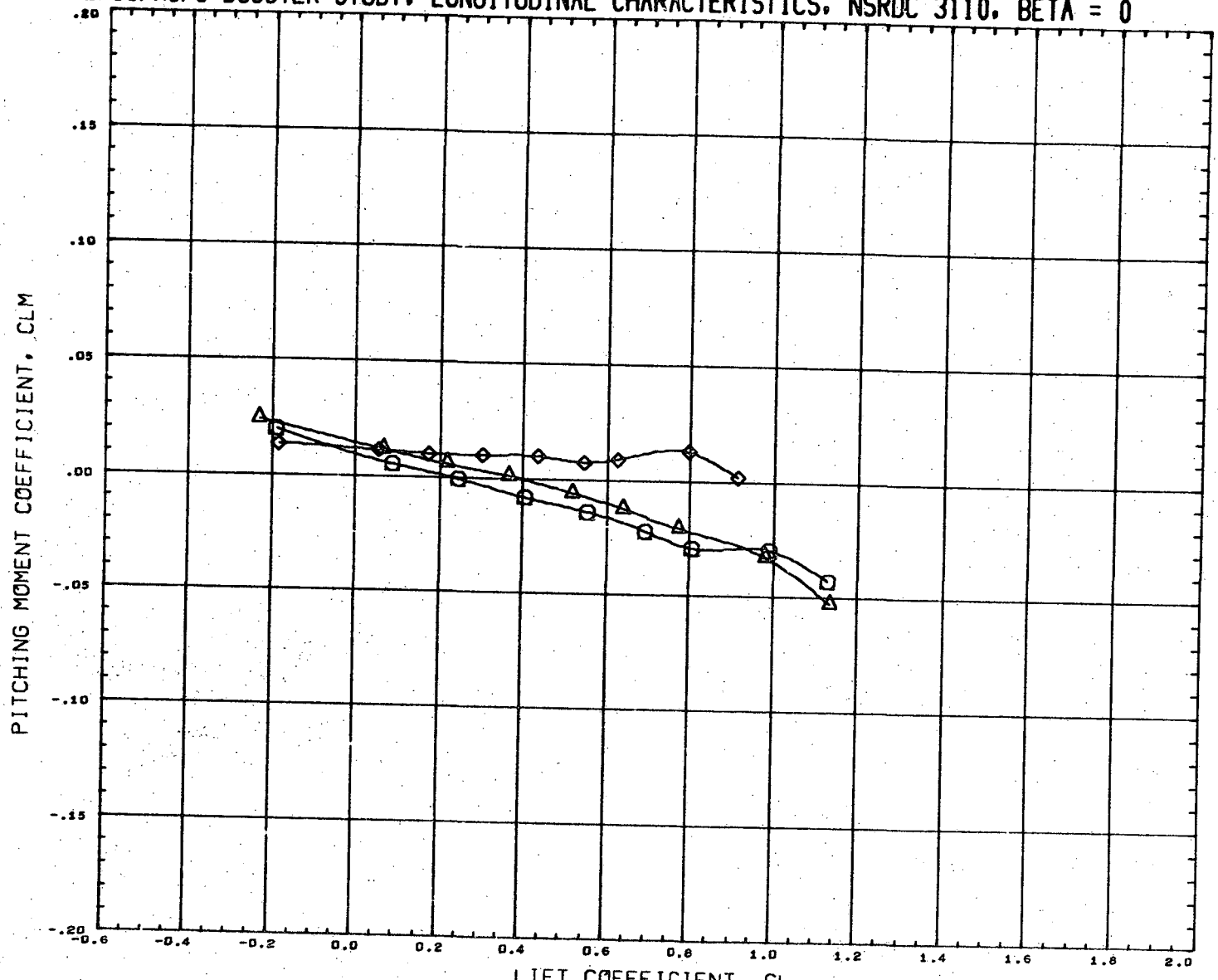
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2201)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2265)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2201)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2265)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

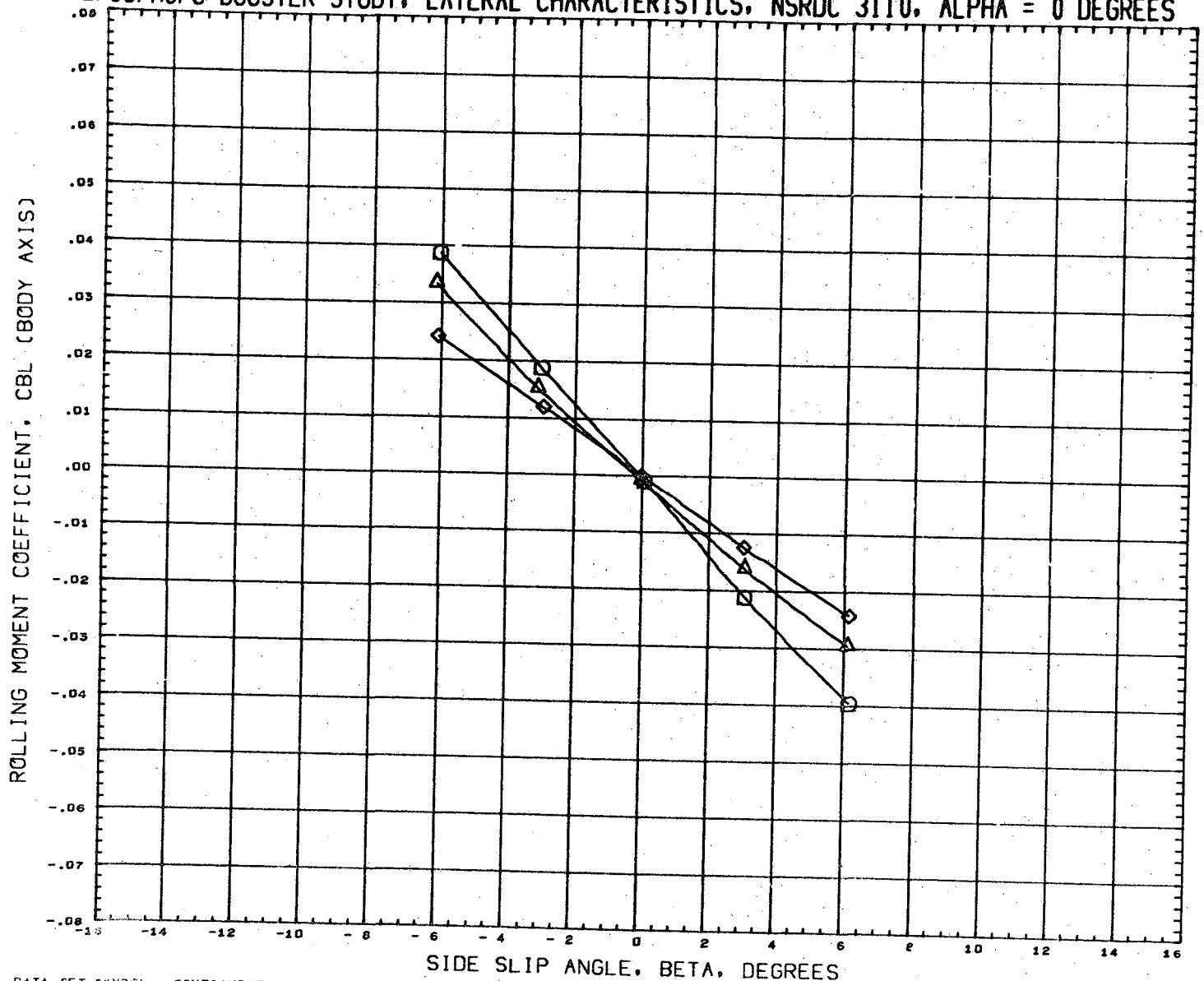
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



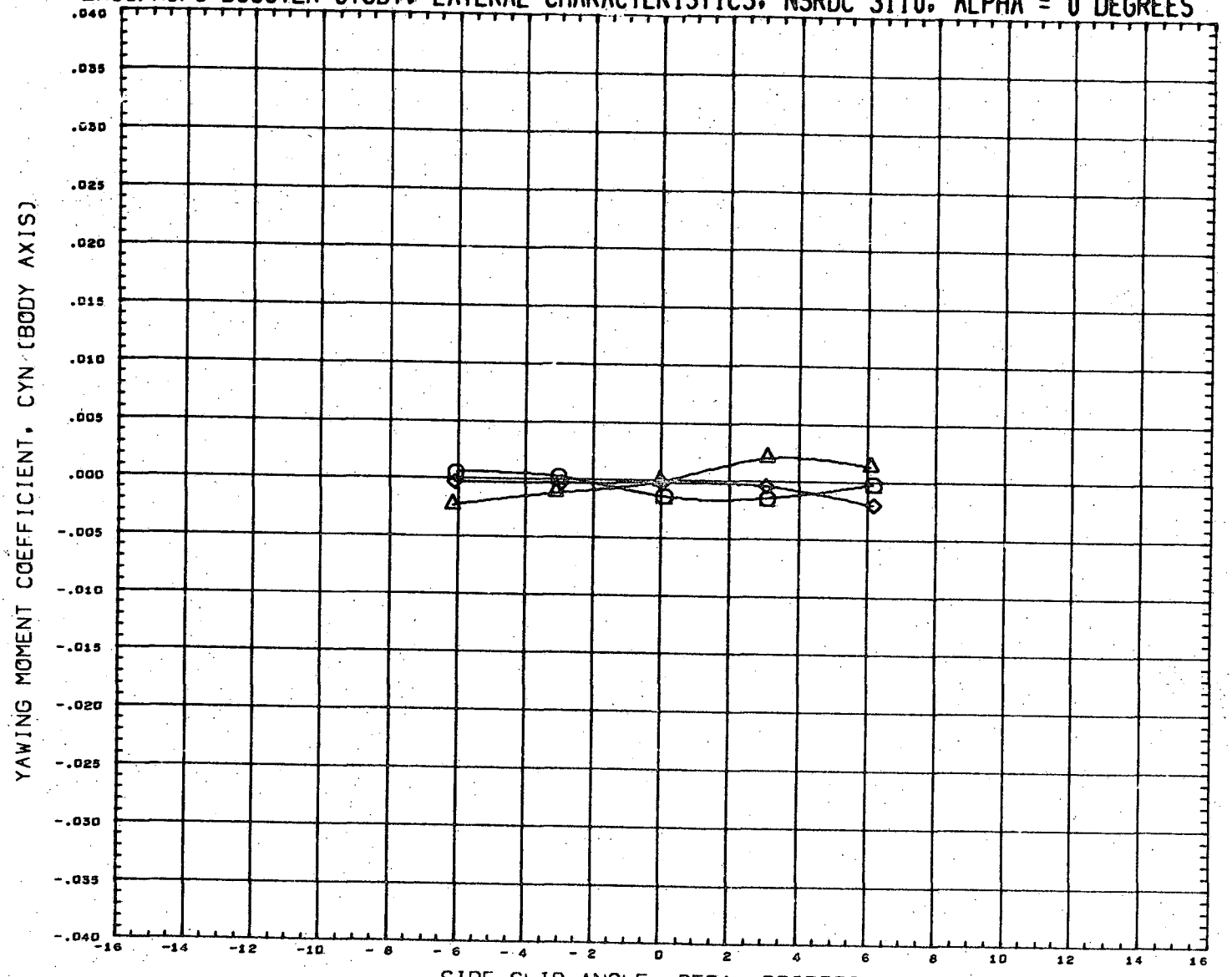
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2010)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2205)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2266)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

MACH 0.382

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

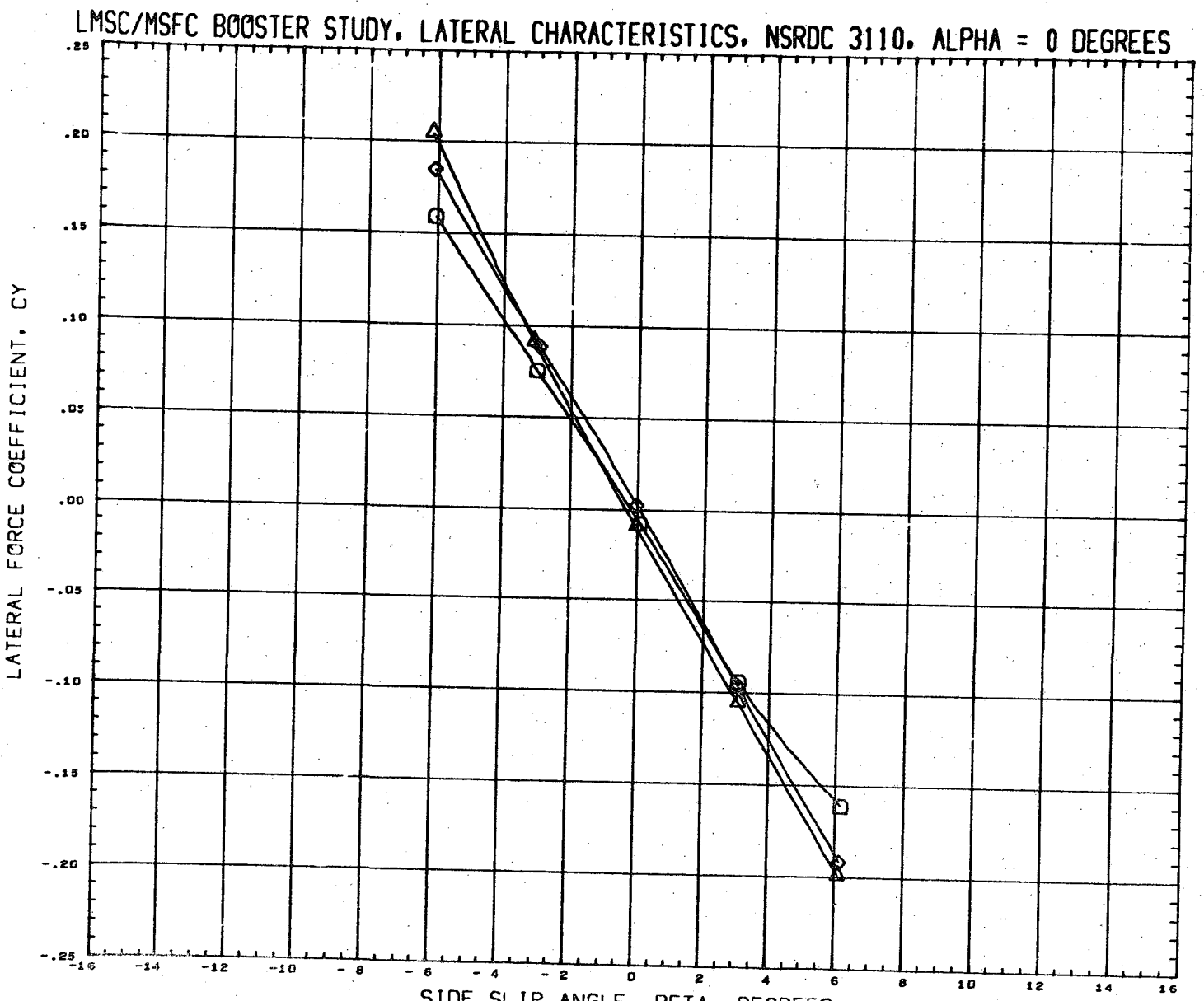
LMSC/MSFC BOOSTER STUDY. LATERAL CHARACTERISTICS. NSRDC 3110. ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2010) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2206) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2266) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



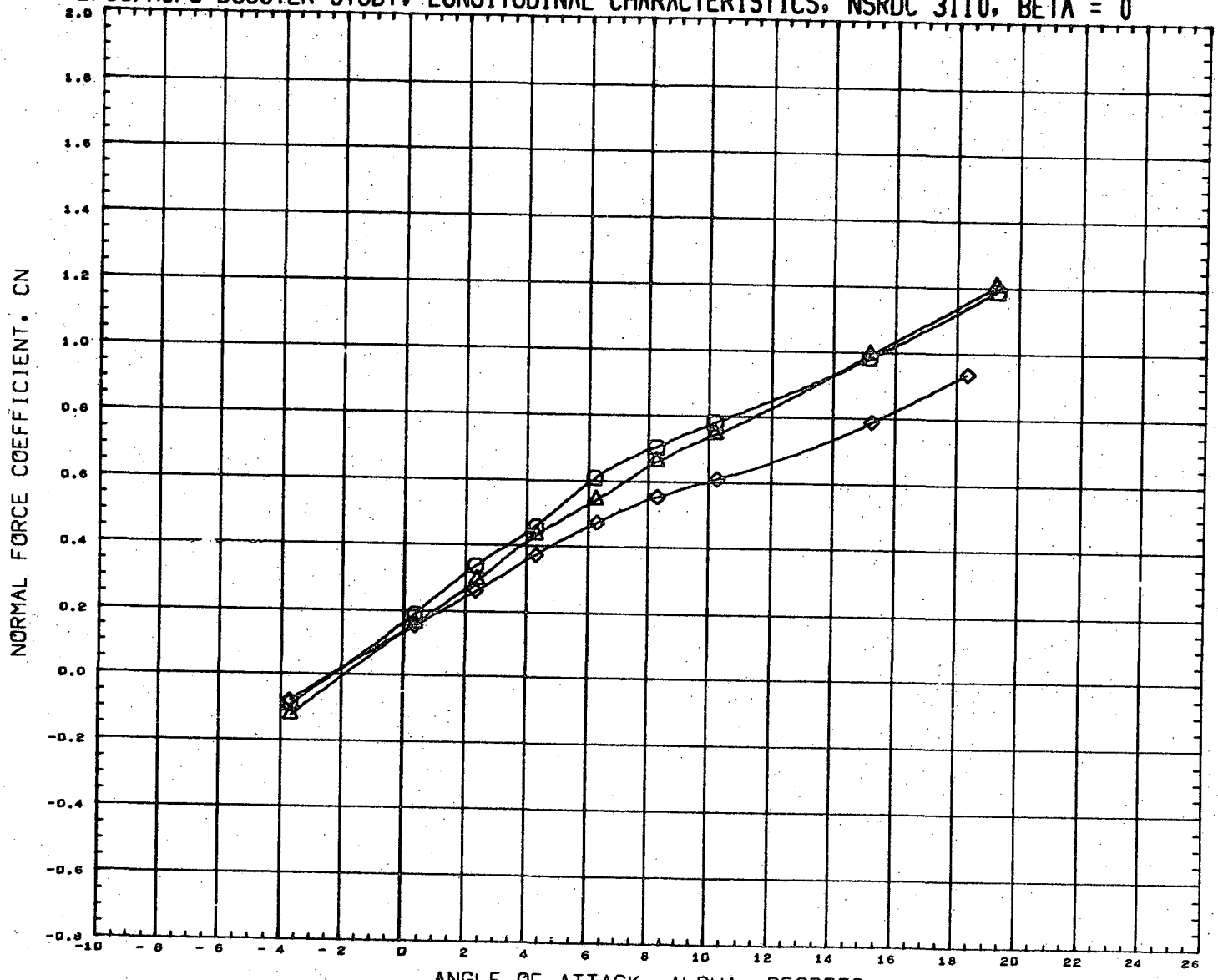
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2010)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2206)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2266)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

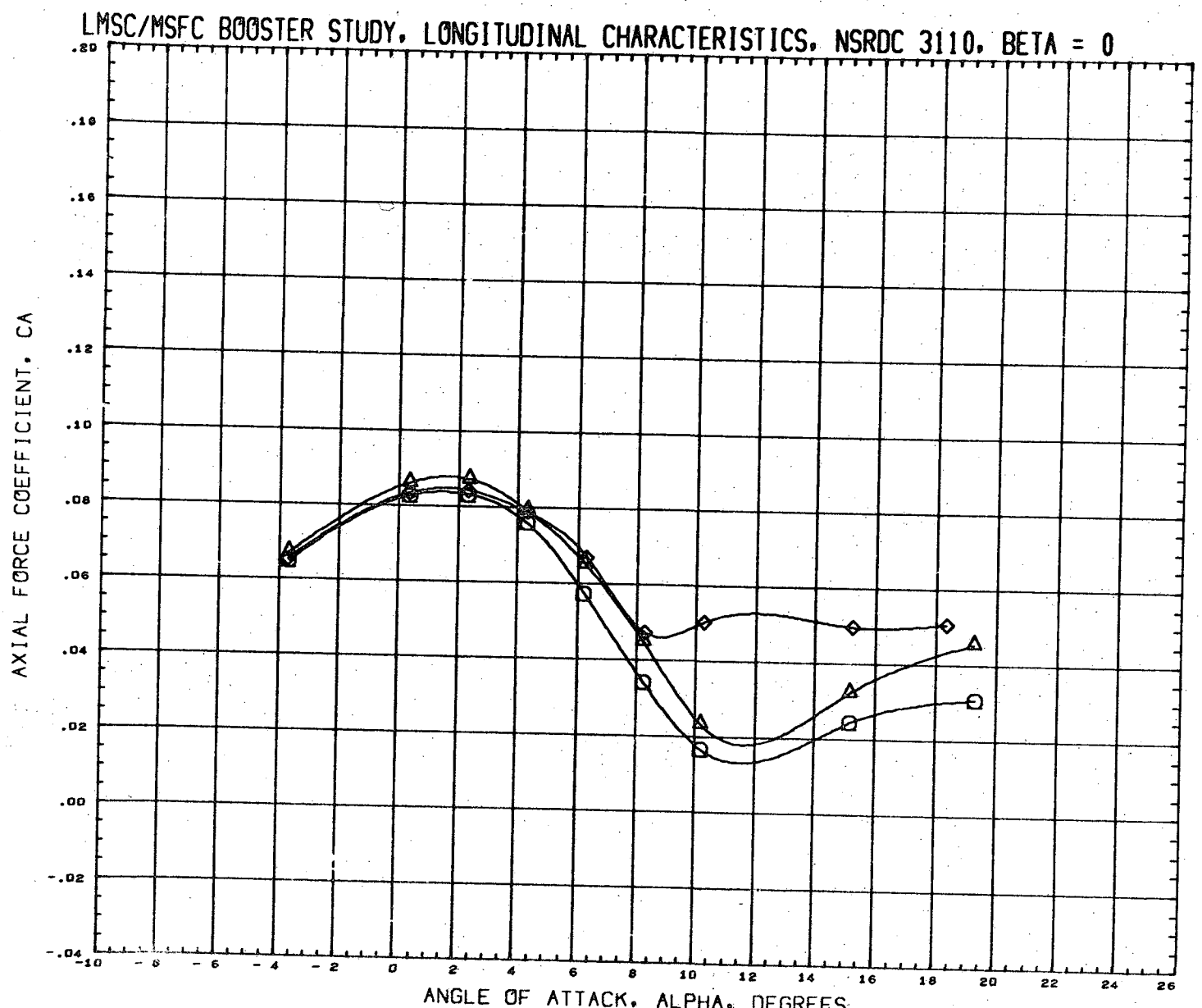


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2205)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2269)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382



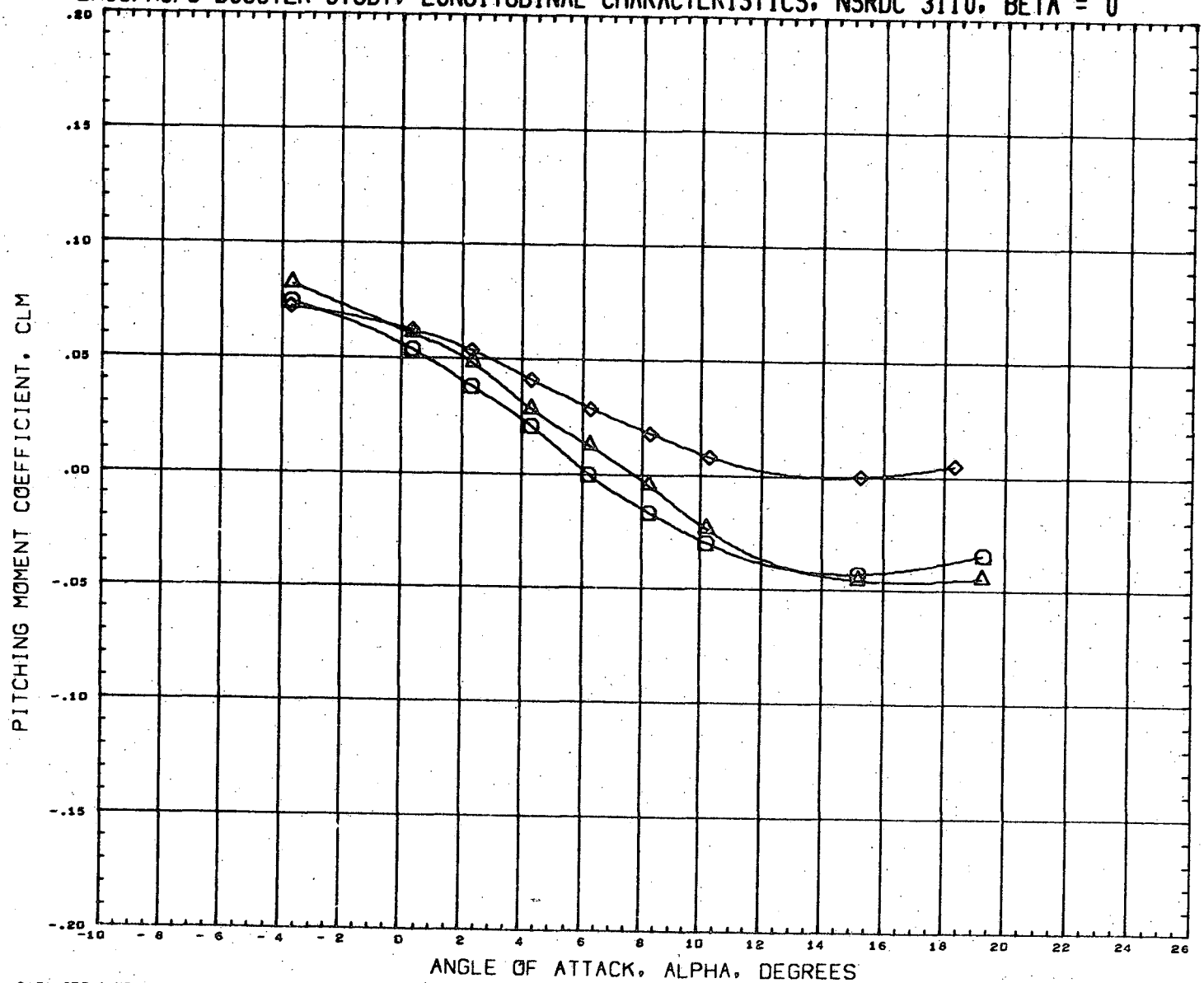
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2205)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2269)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

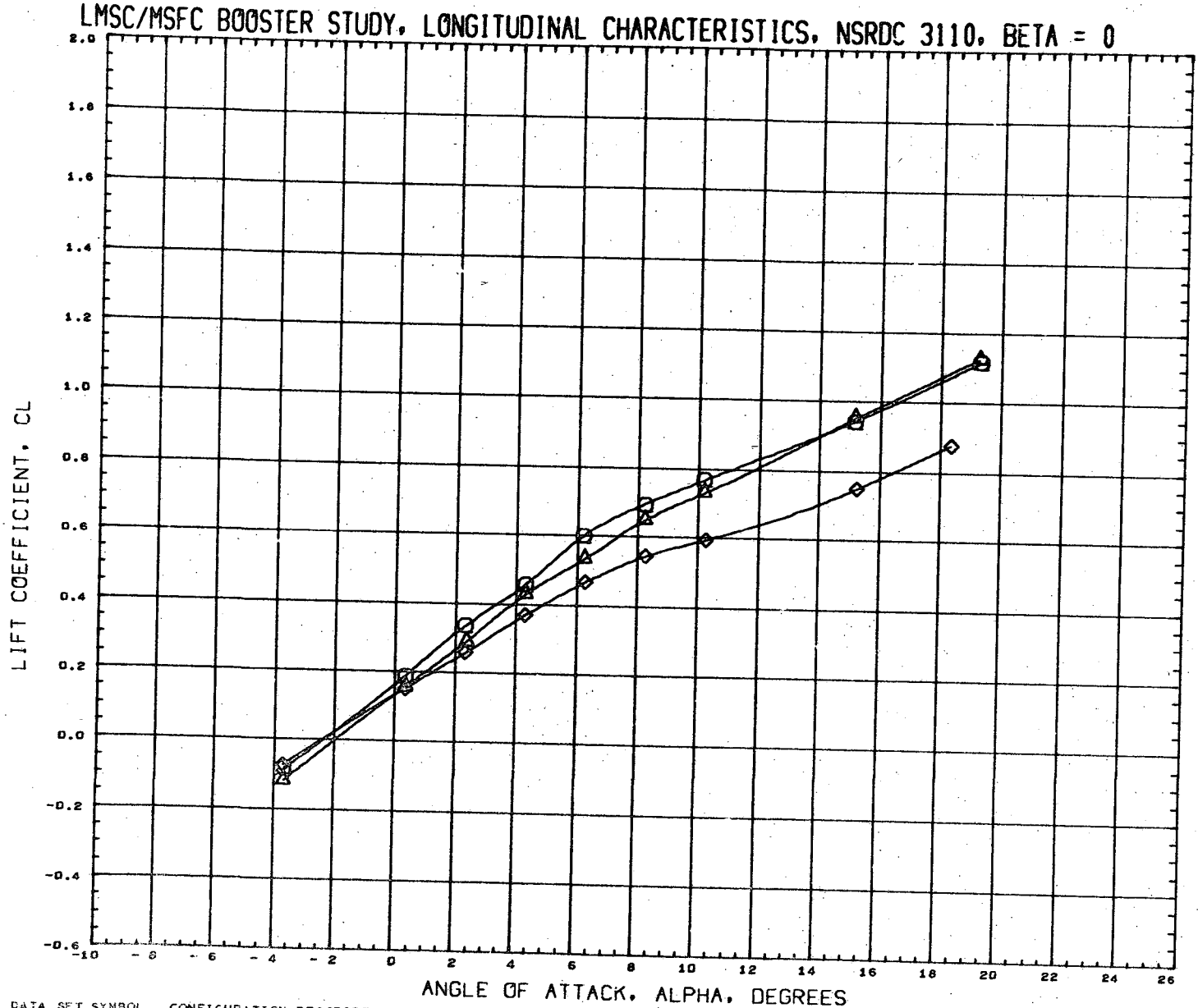


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2205)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2269)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH: 0.382



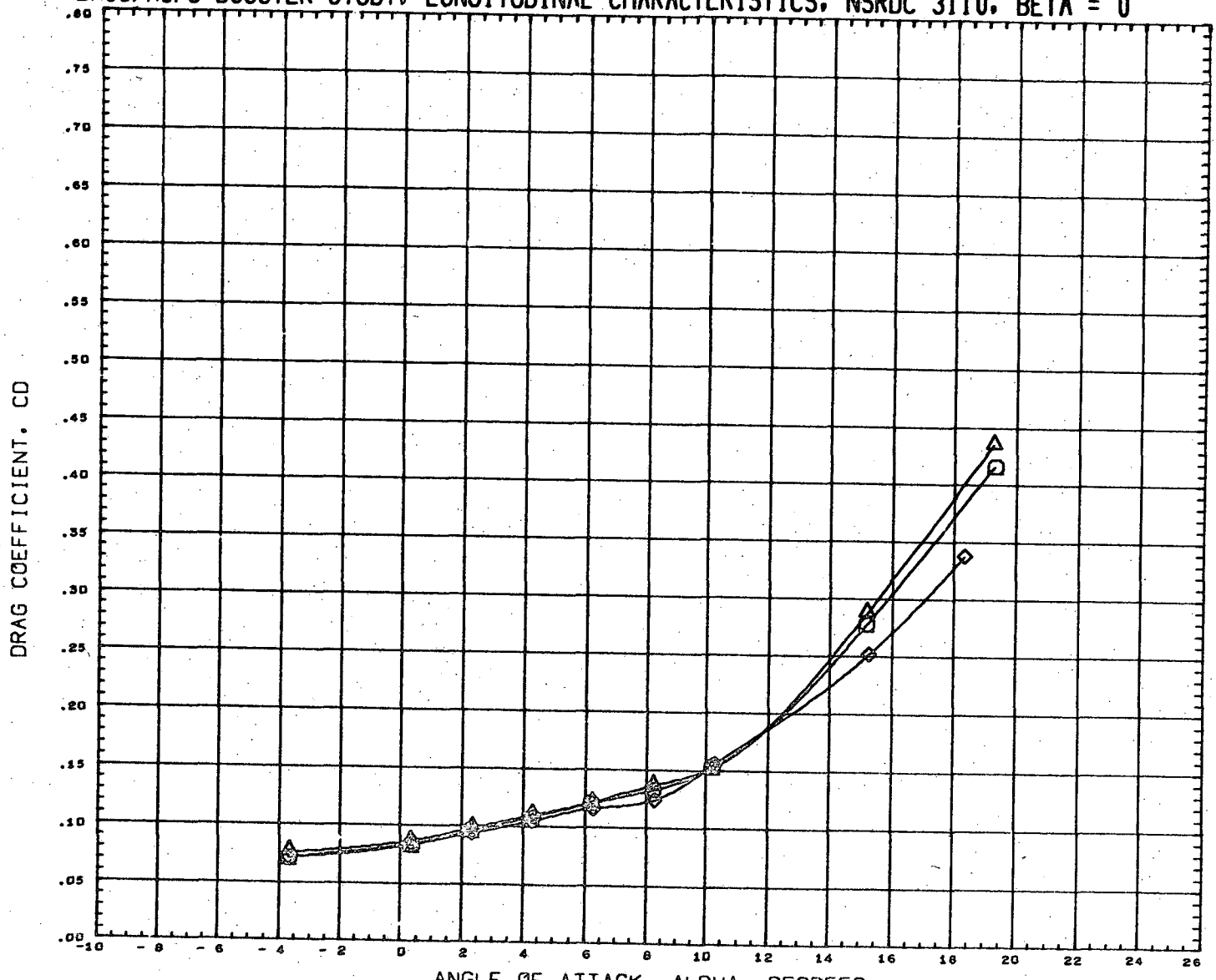
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2205)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2269)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

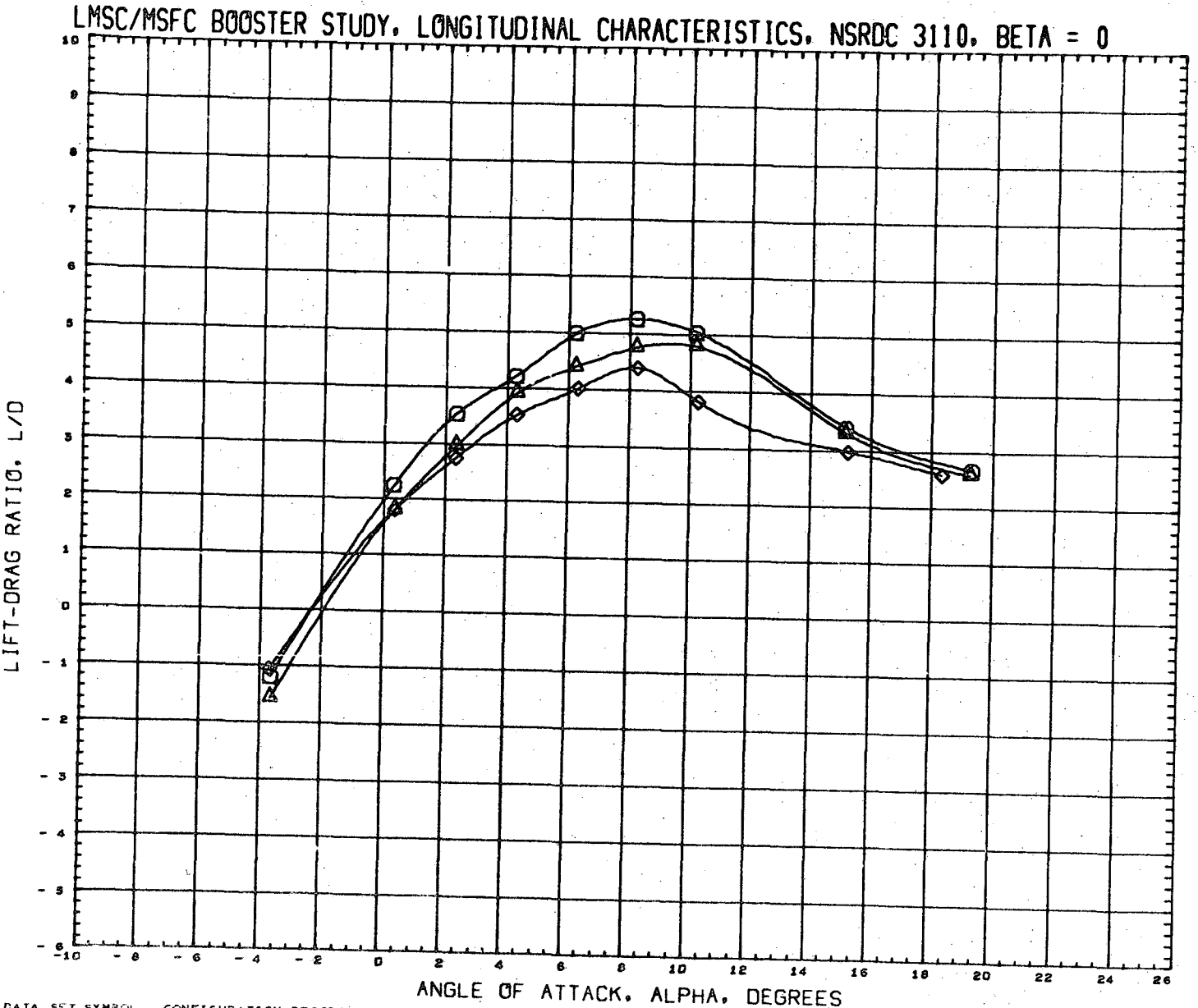
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2205)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2269)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

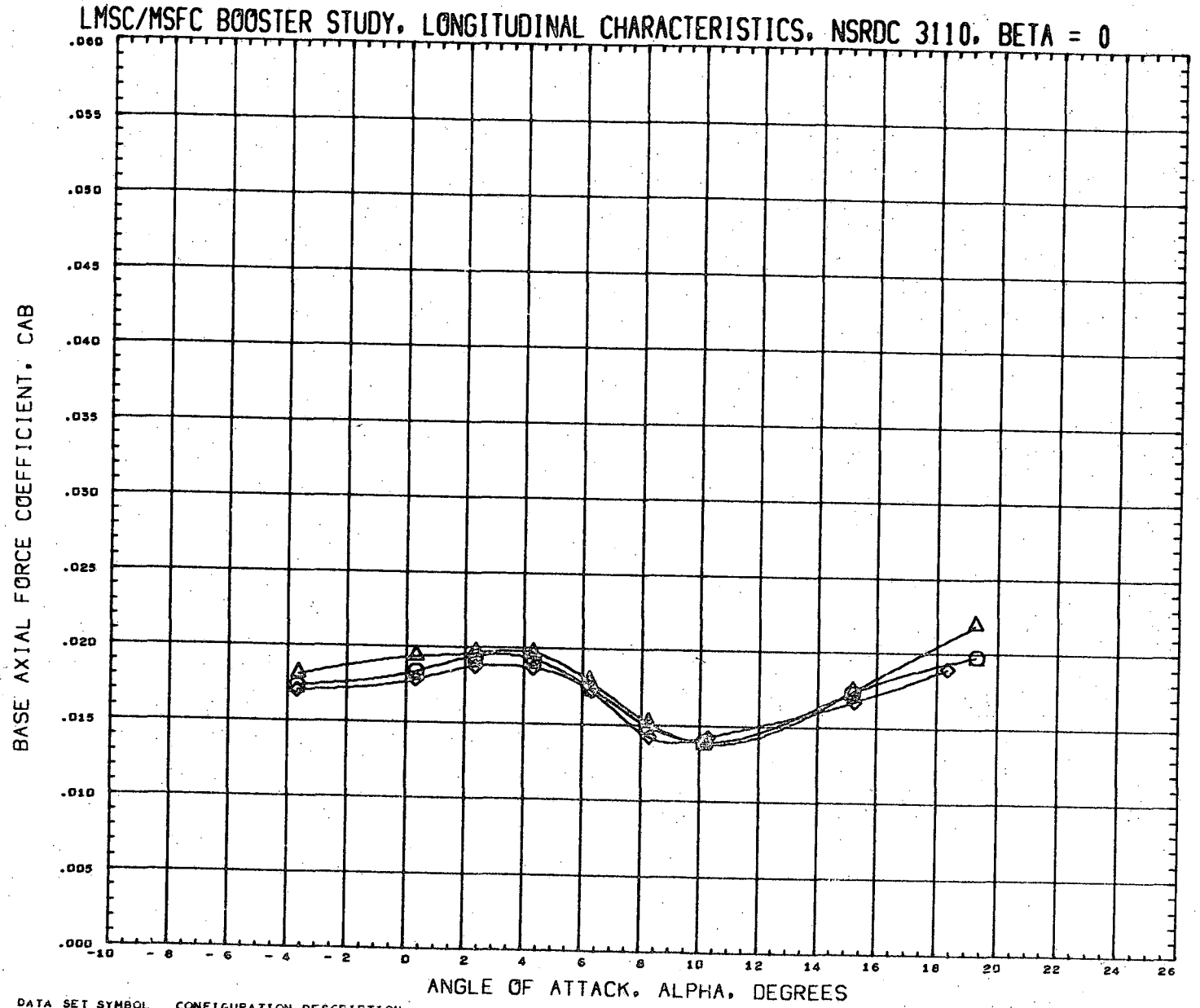


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2205)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2269)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.362



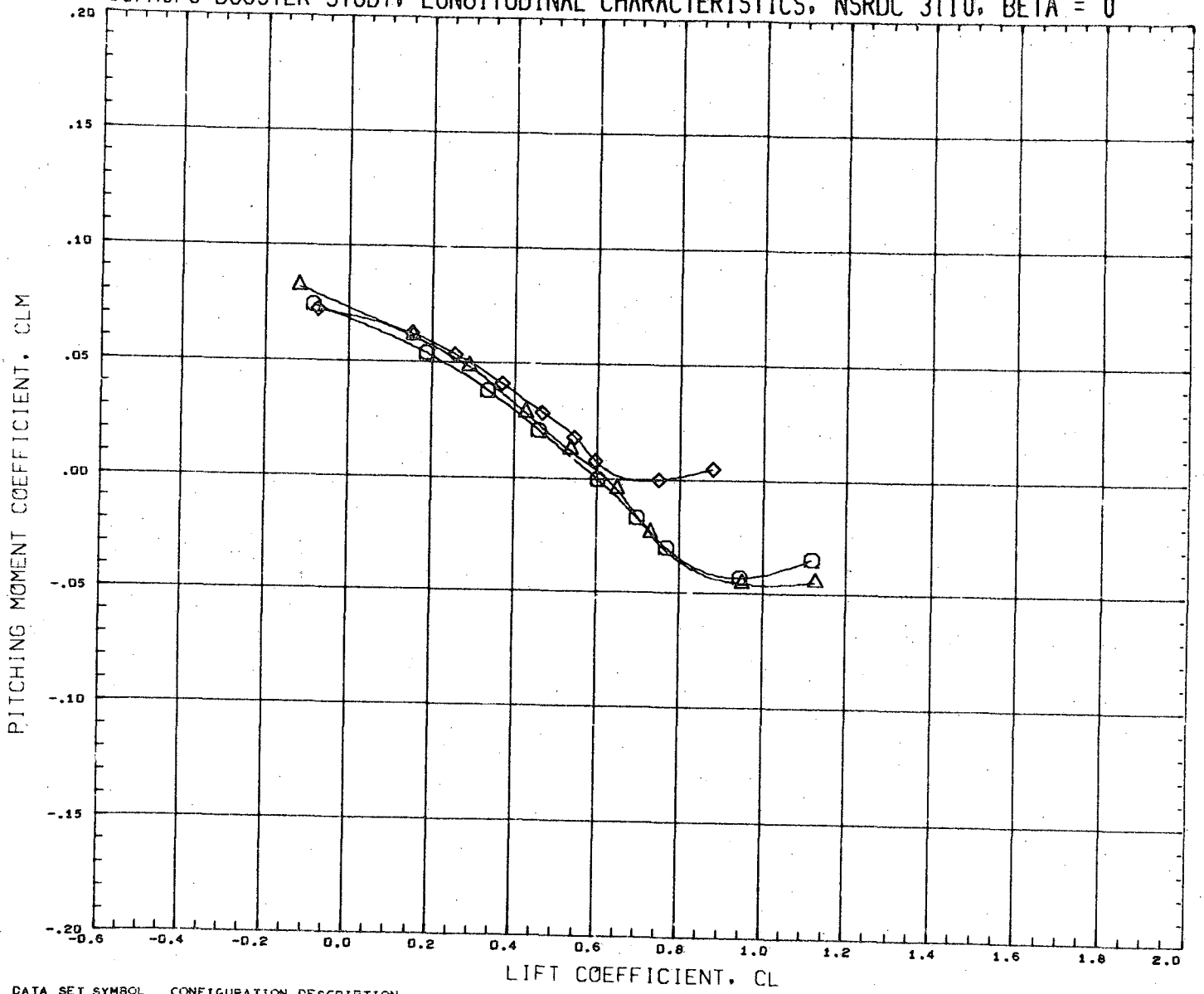
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2013) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2205) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2269) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

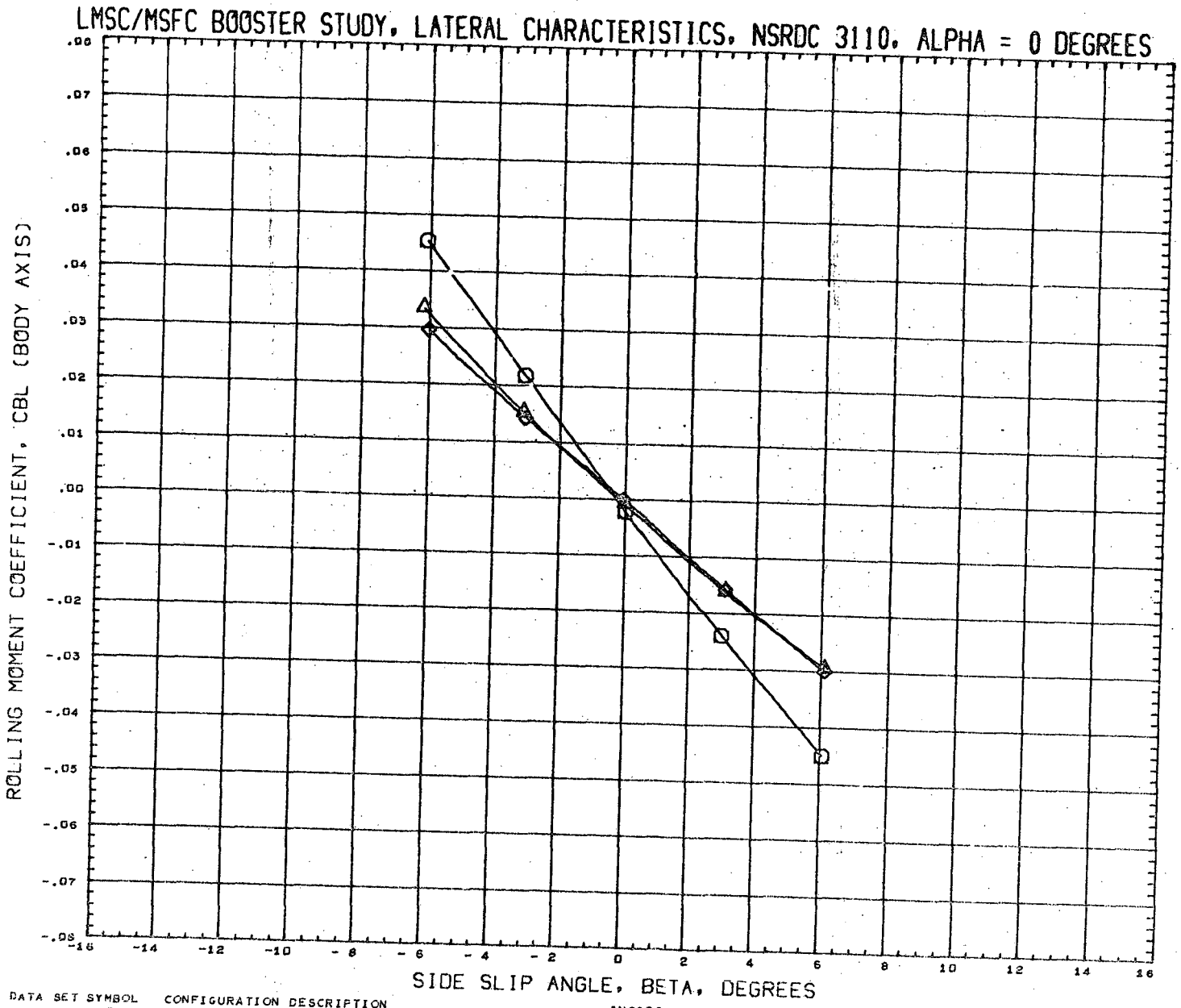


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2013) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2205) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2269) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION		
REFS	1.3550	SQ.FT.
REFL	41.4360	INCHES
REFB	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2014)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2206)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2270)	◇	NSRDC-3110;MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

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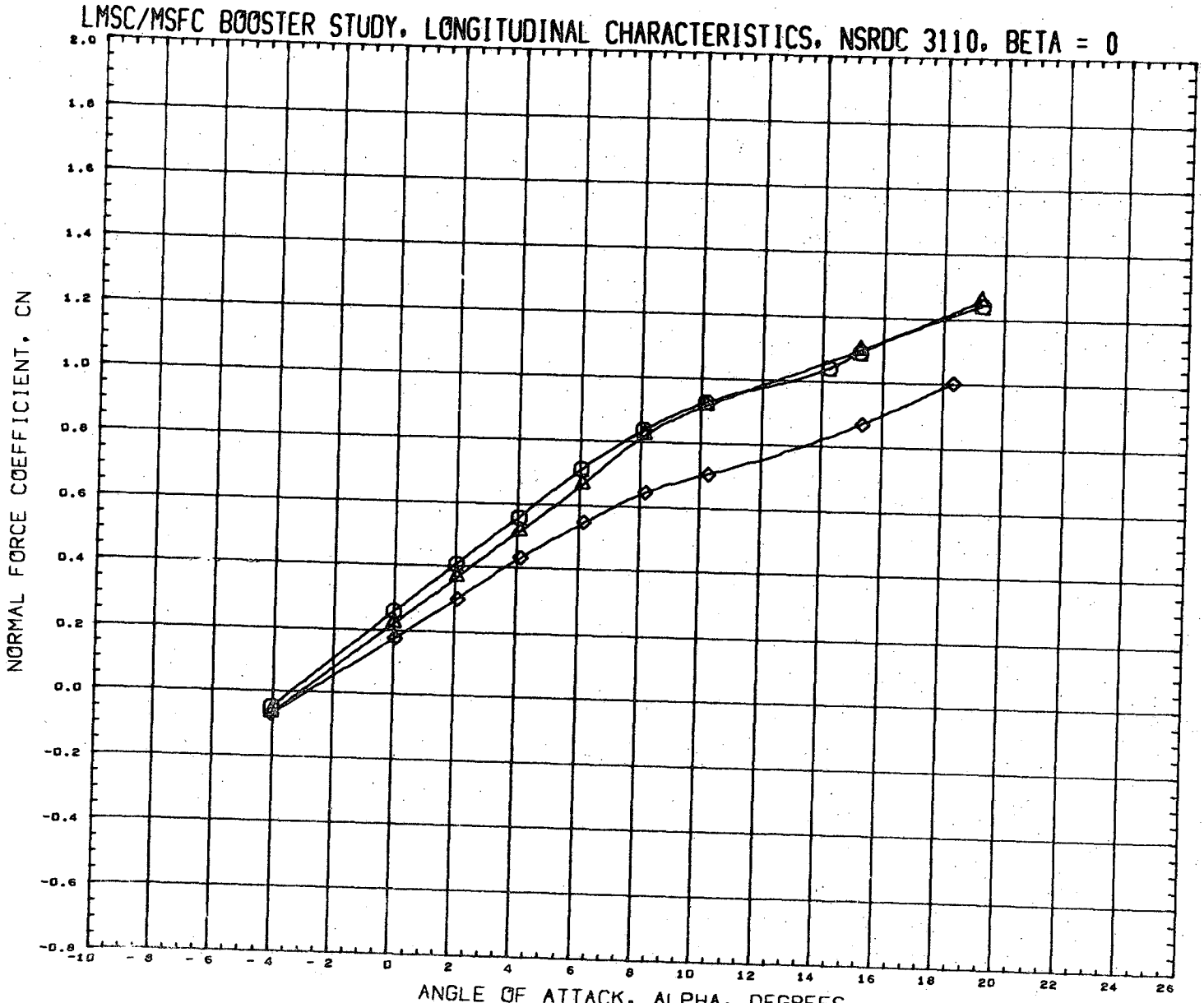
593, 594 Missing



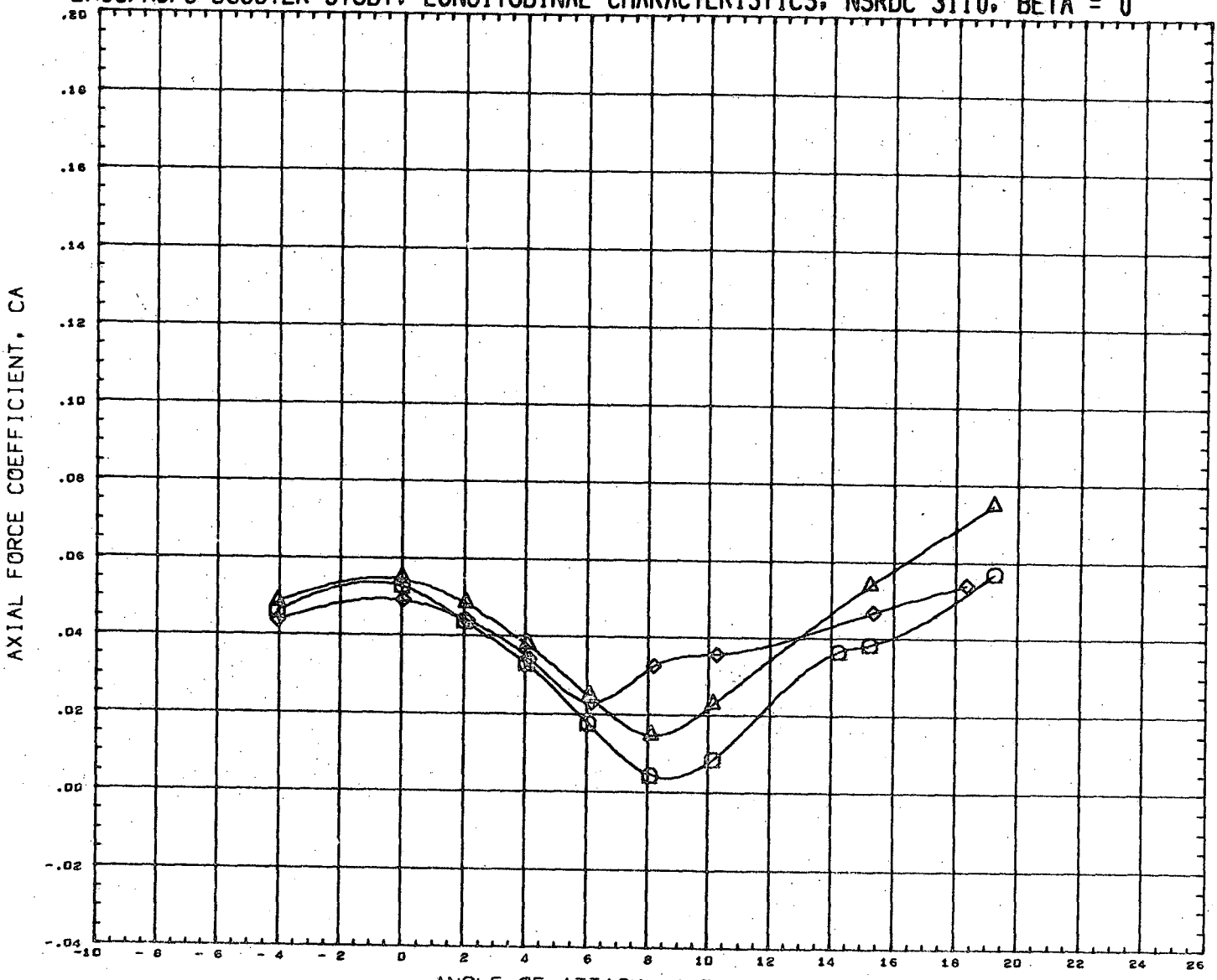
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2041) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2233) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2293) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

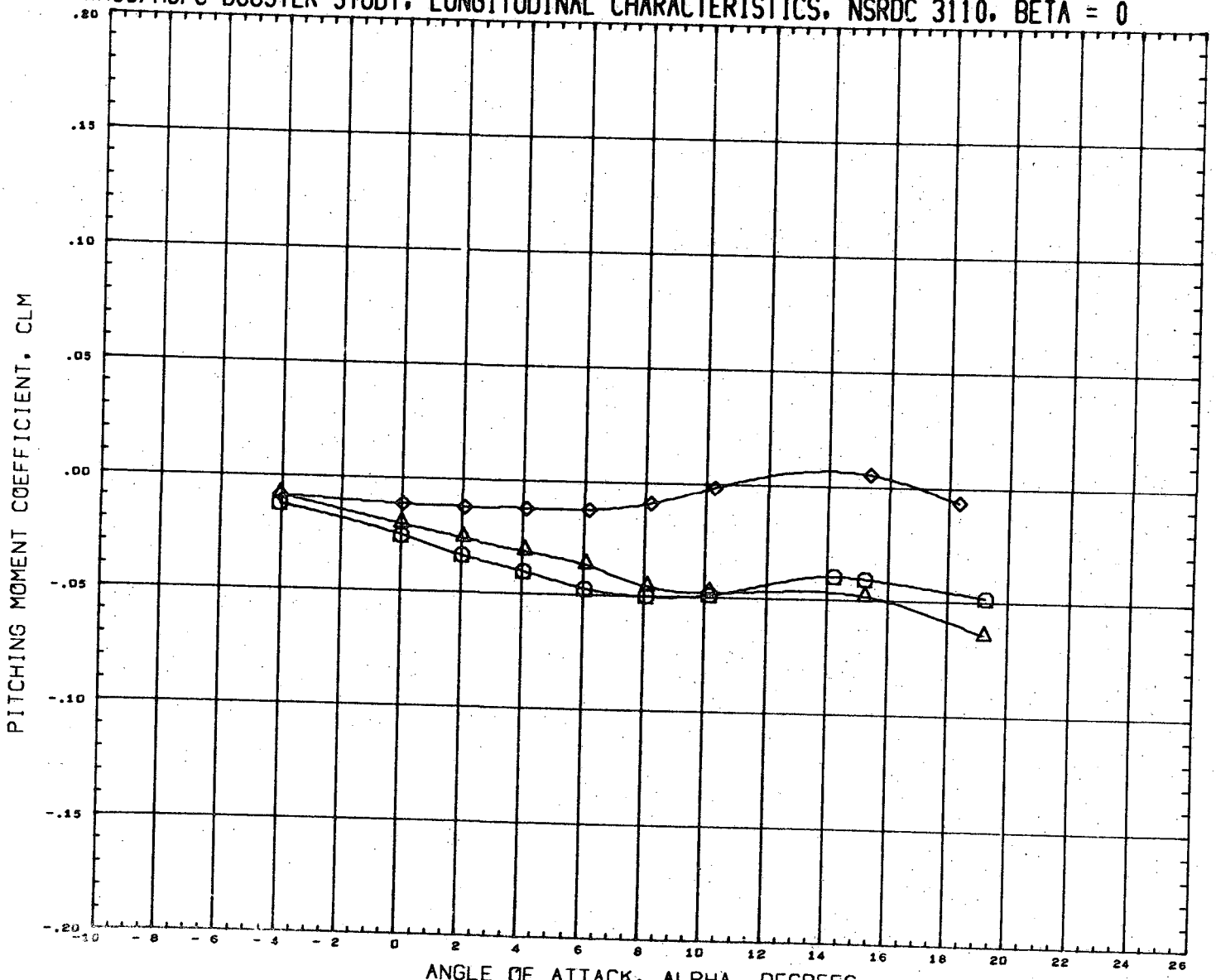
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2041)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000
(RN2233)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000
(RN2293)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

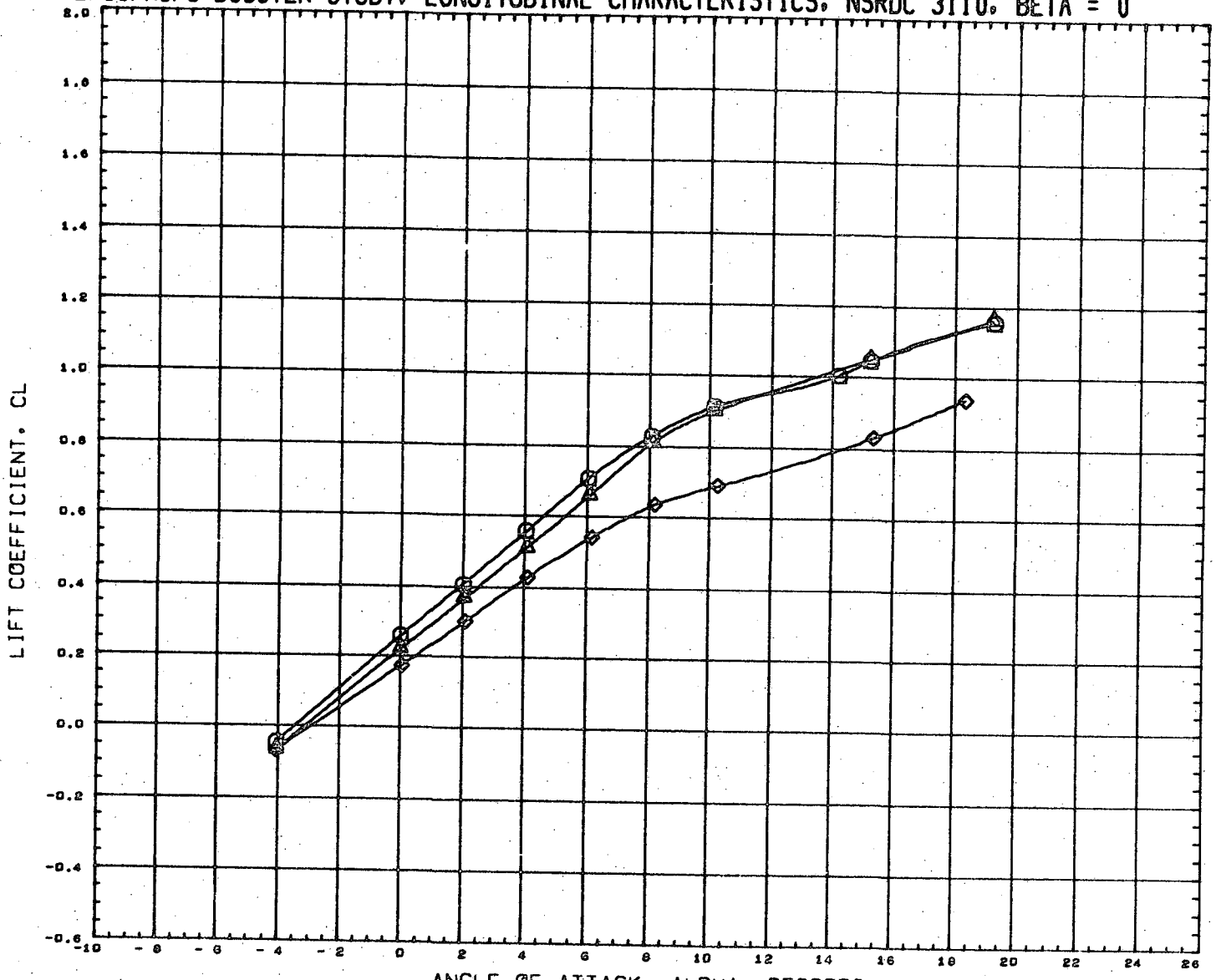


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2041) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000
(RN2233) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000
(RN2293) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2041)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2233)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2293)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

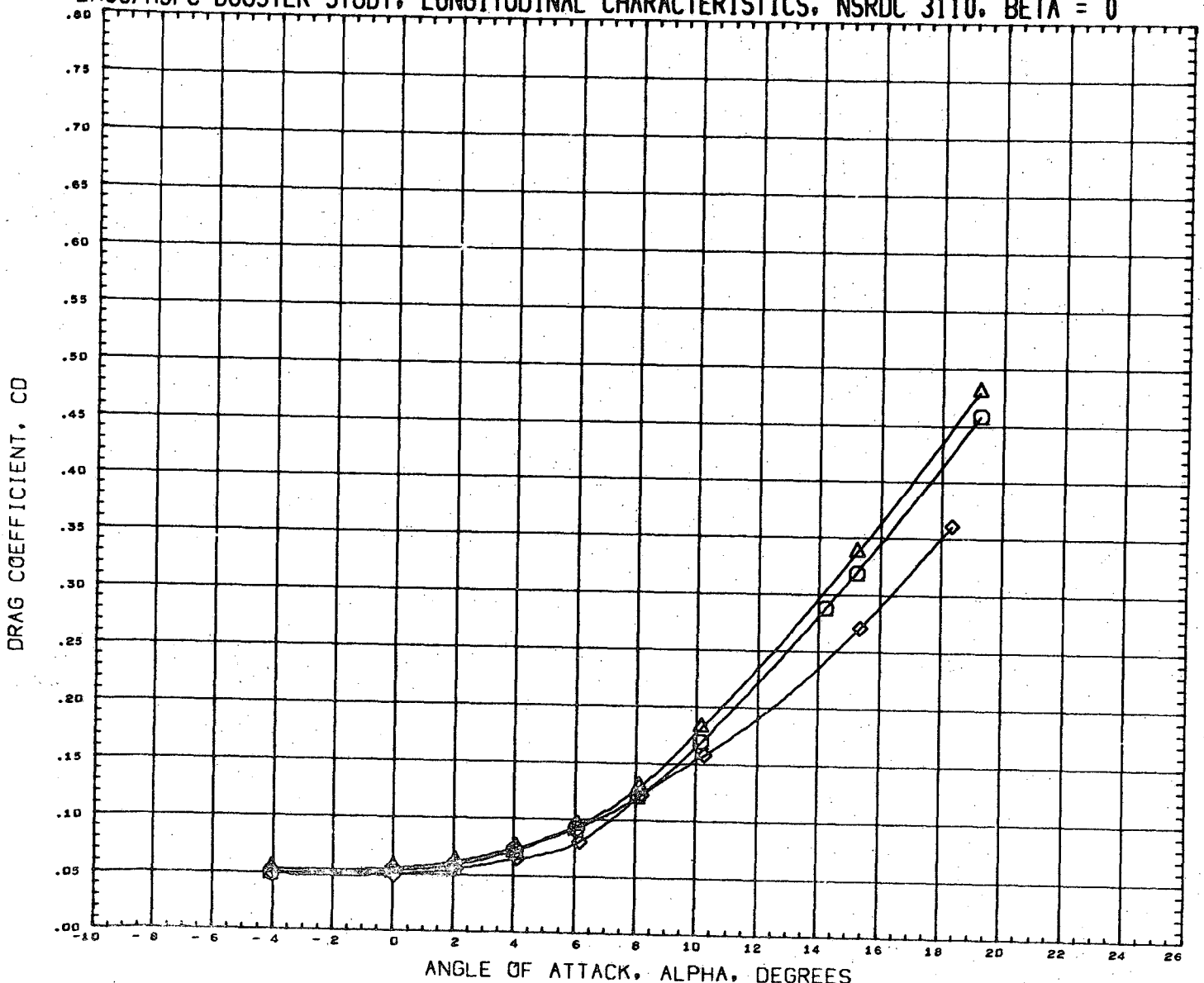
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



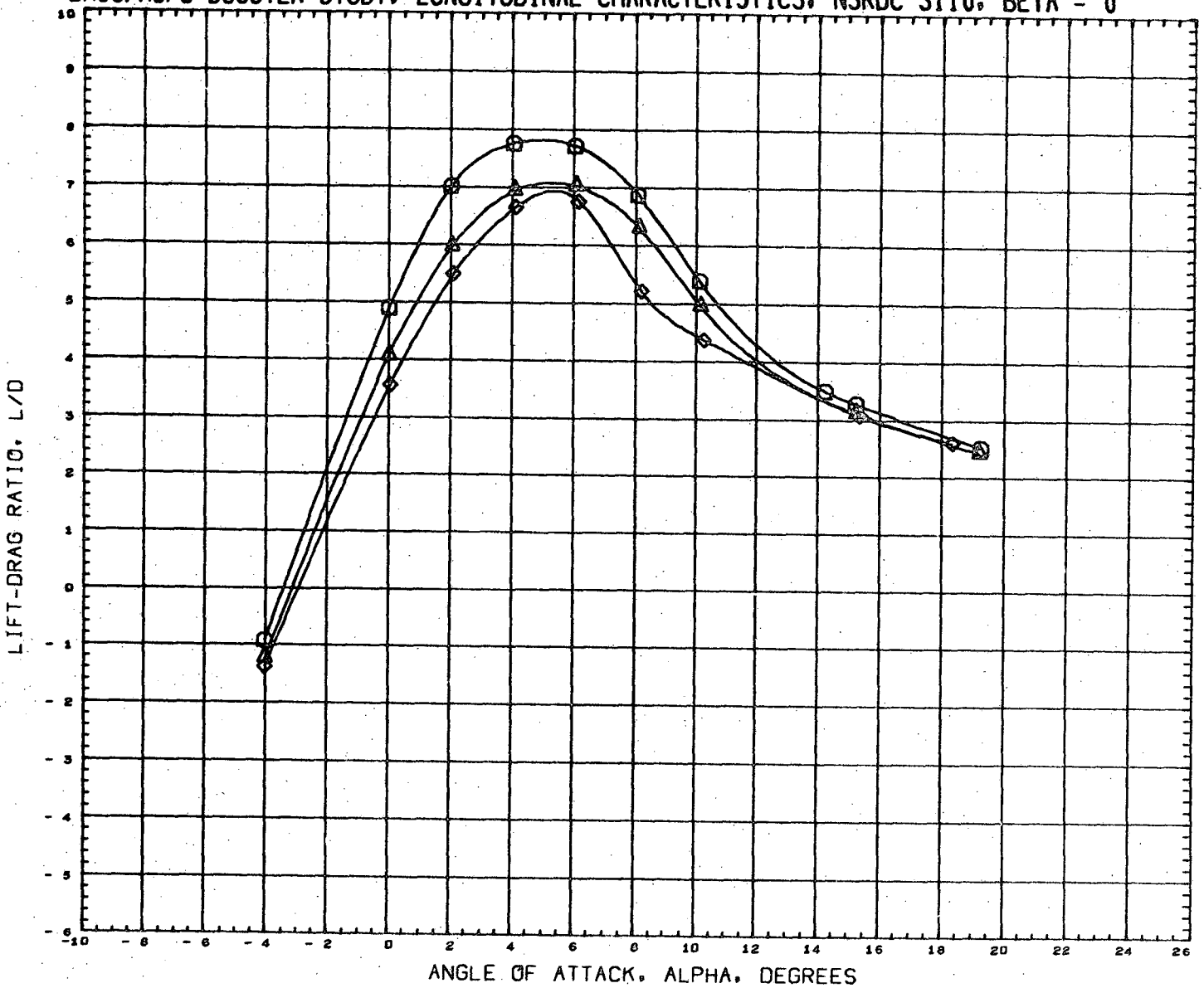
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2041)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2233)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2293)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

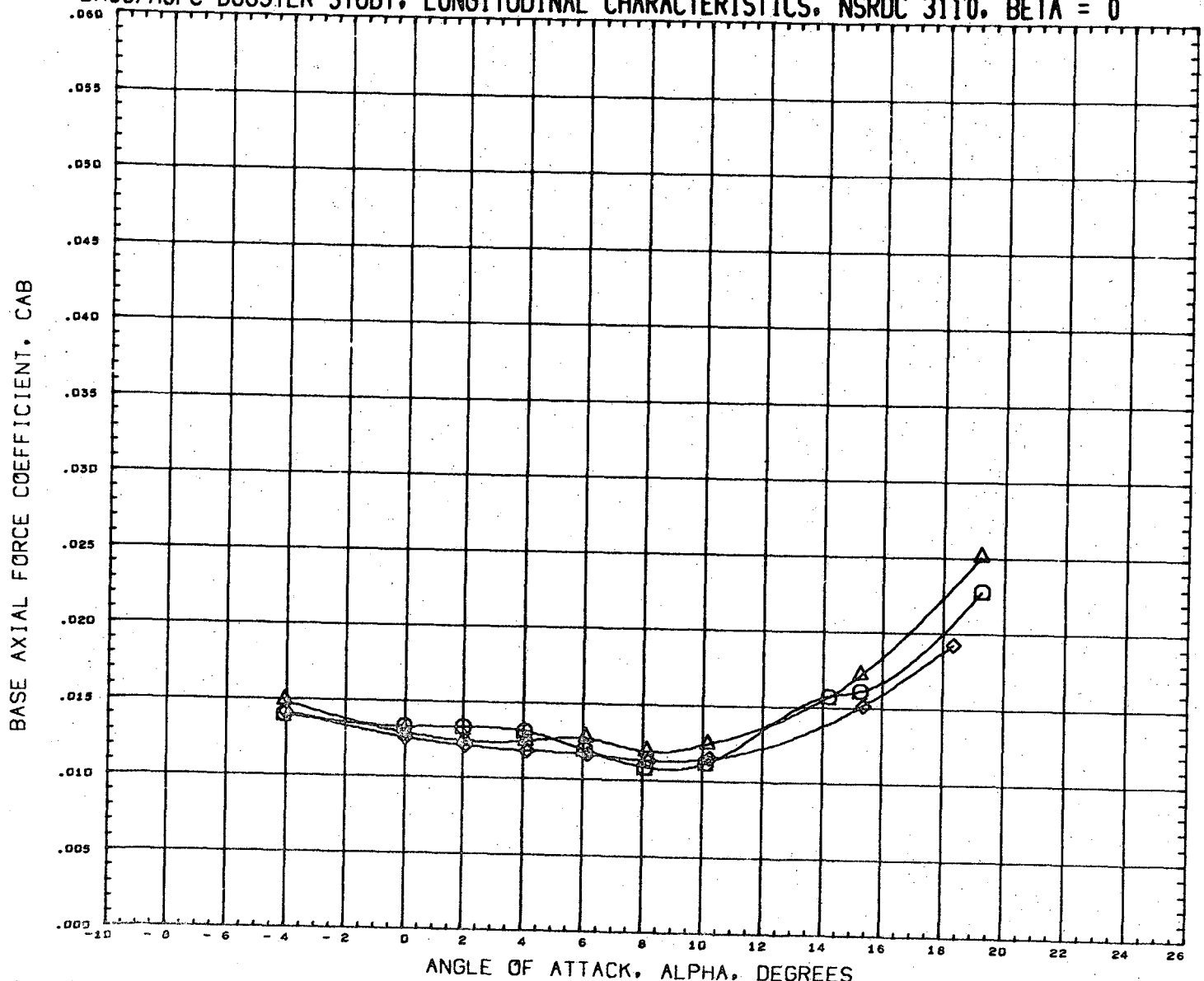
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2041)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000
(RN2233)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000
(RN2293)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380



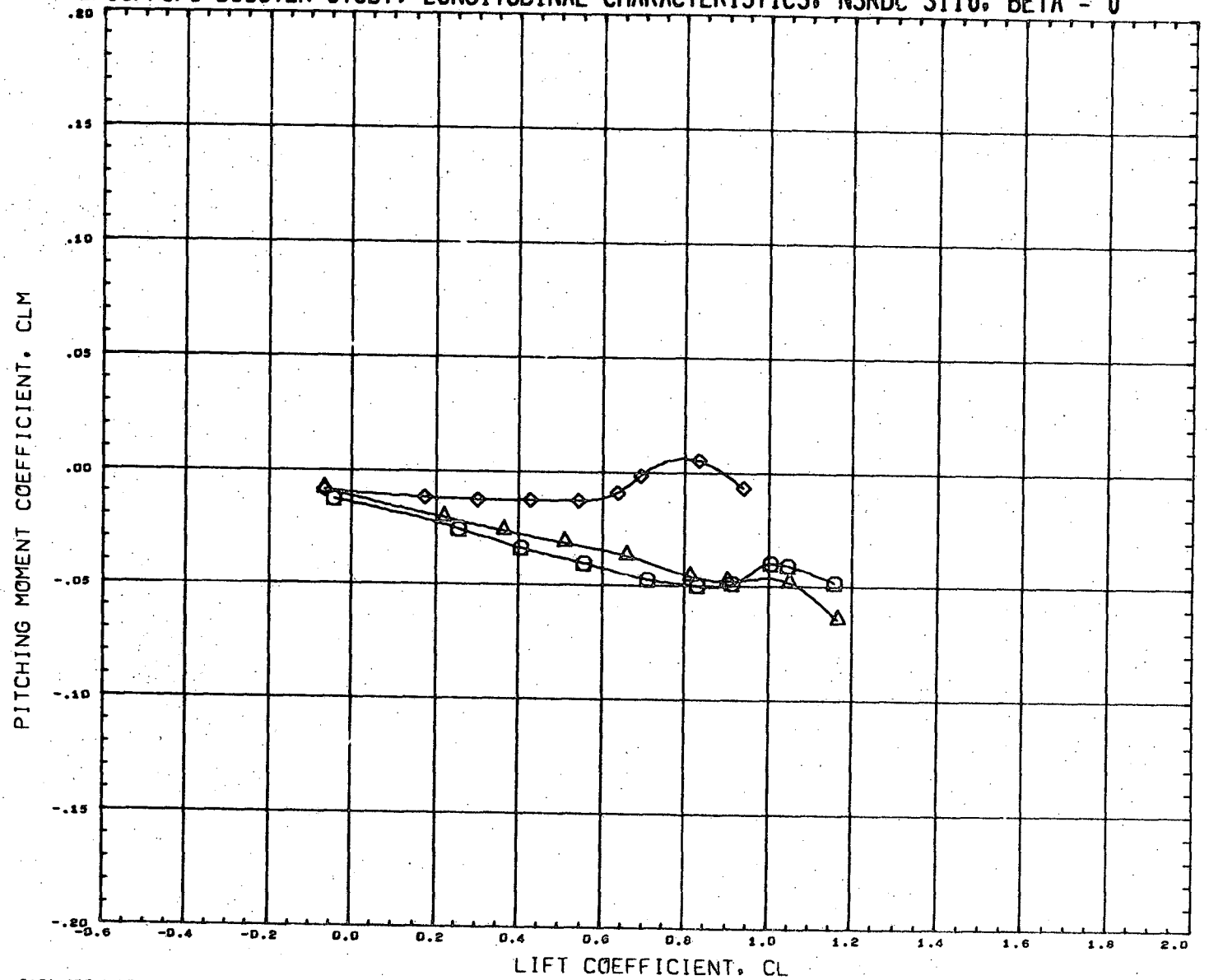
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2041)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2233)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2293)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.360

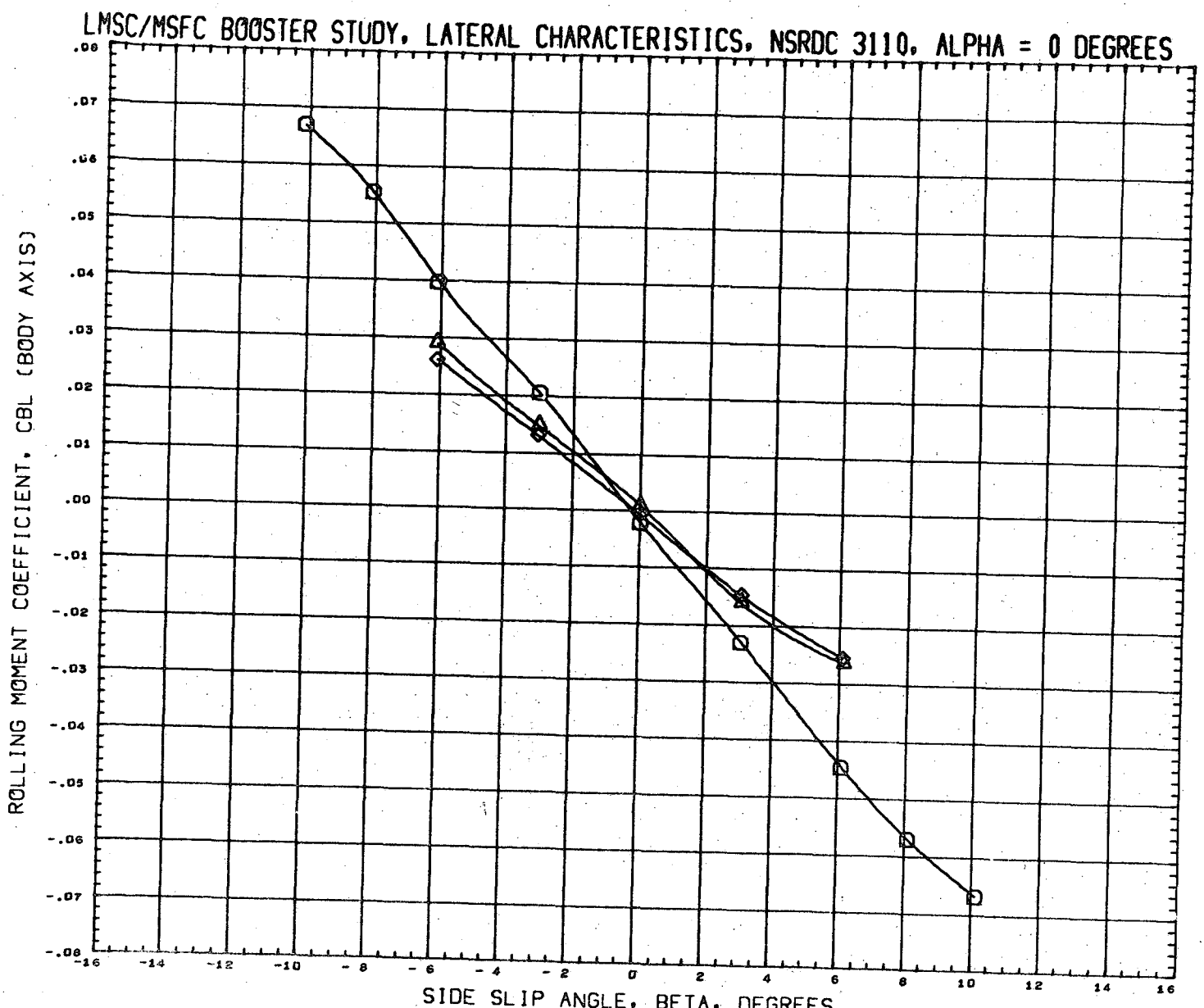
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2041) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000
(RN2233) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000
(RN2293) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380



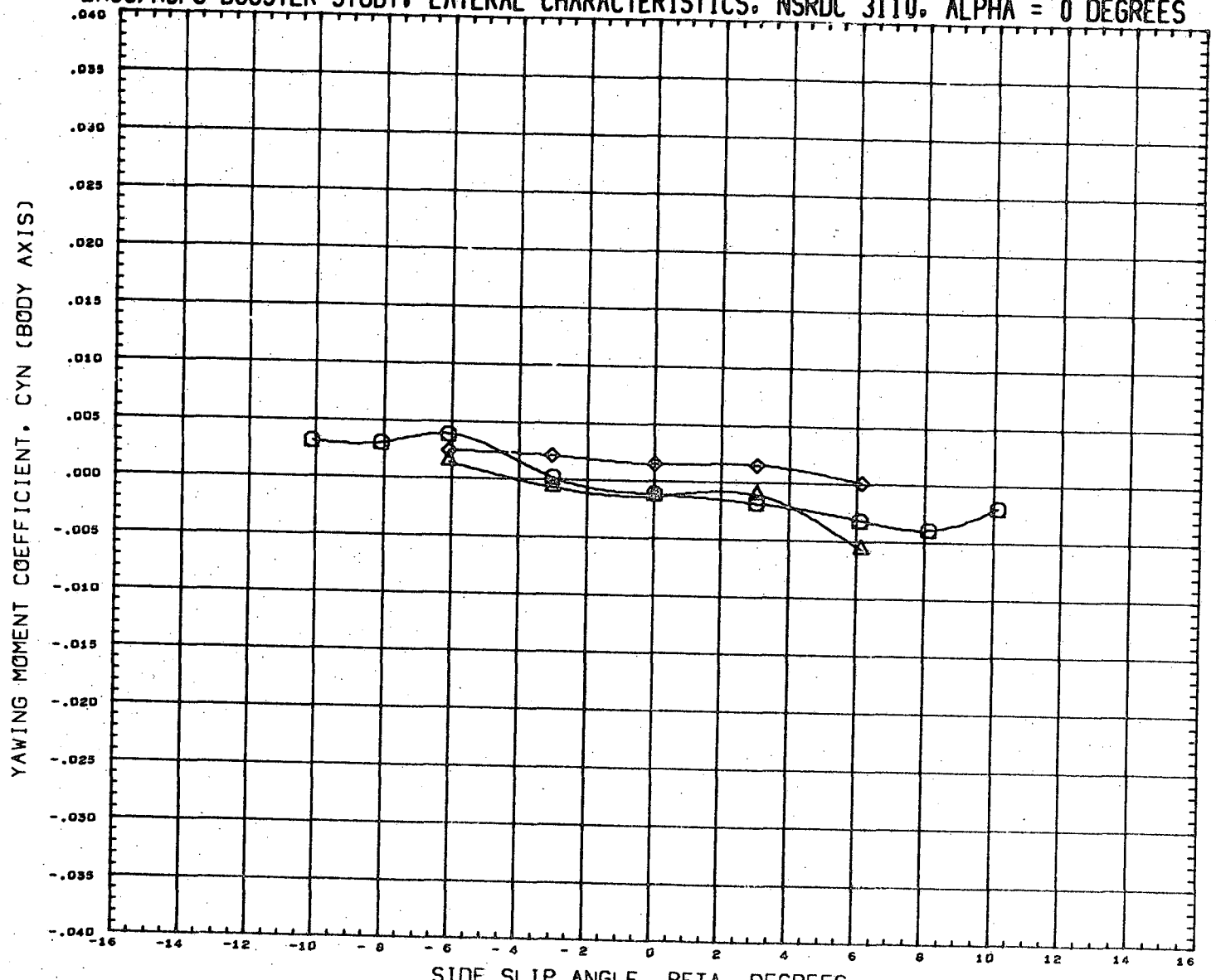
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2042) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2234) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2294) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

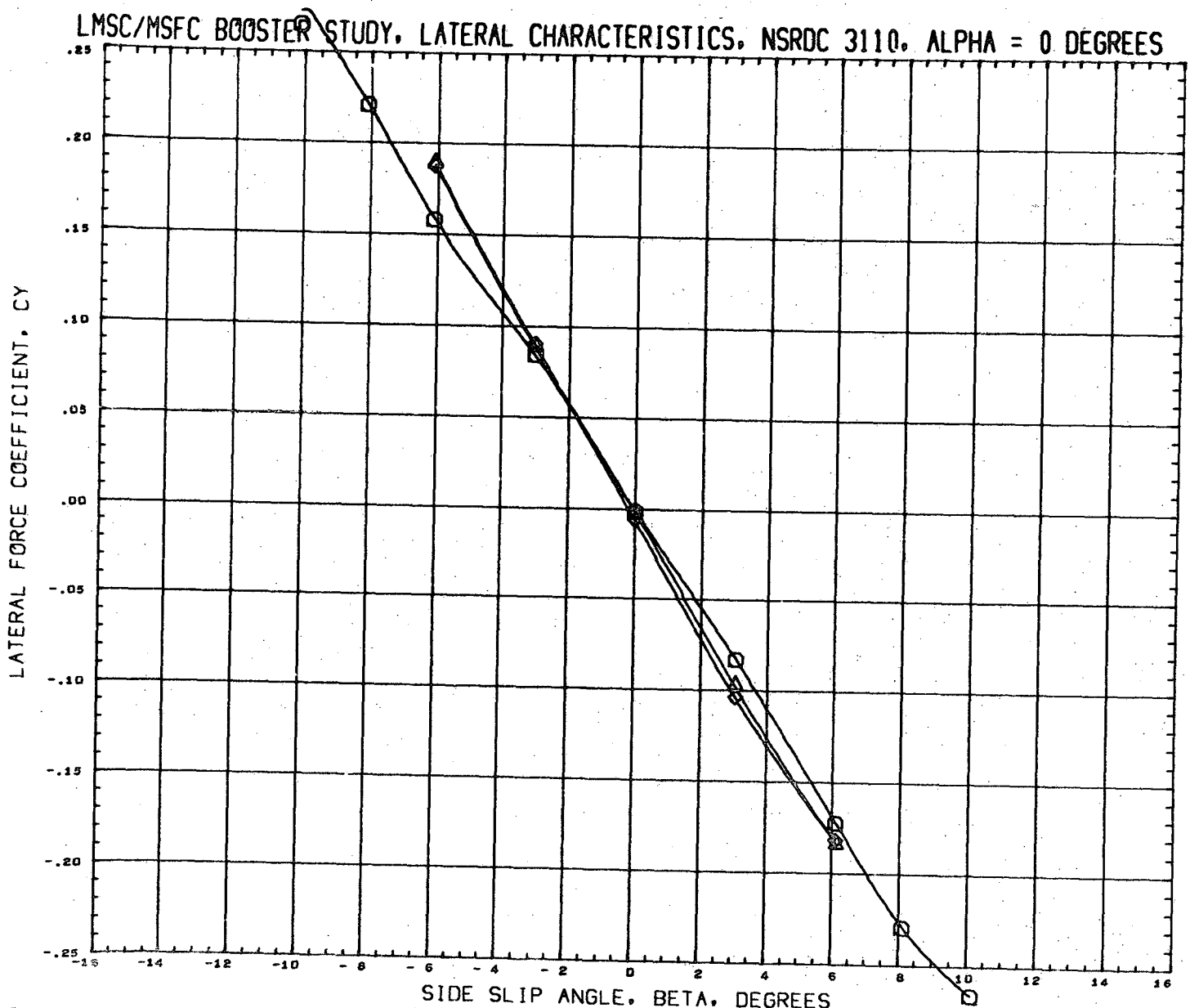
LMSC/MSFC BOOSTER STUDY. LATERAL CHARACTERISTICS. NSRDC 3110. ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2042)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000
(RN2234)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000
(RN2294)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



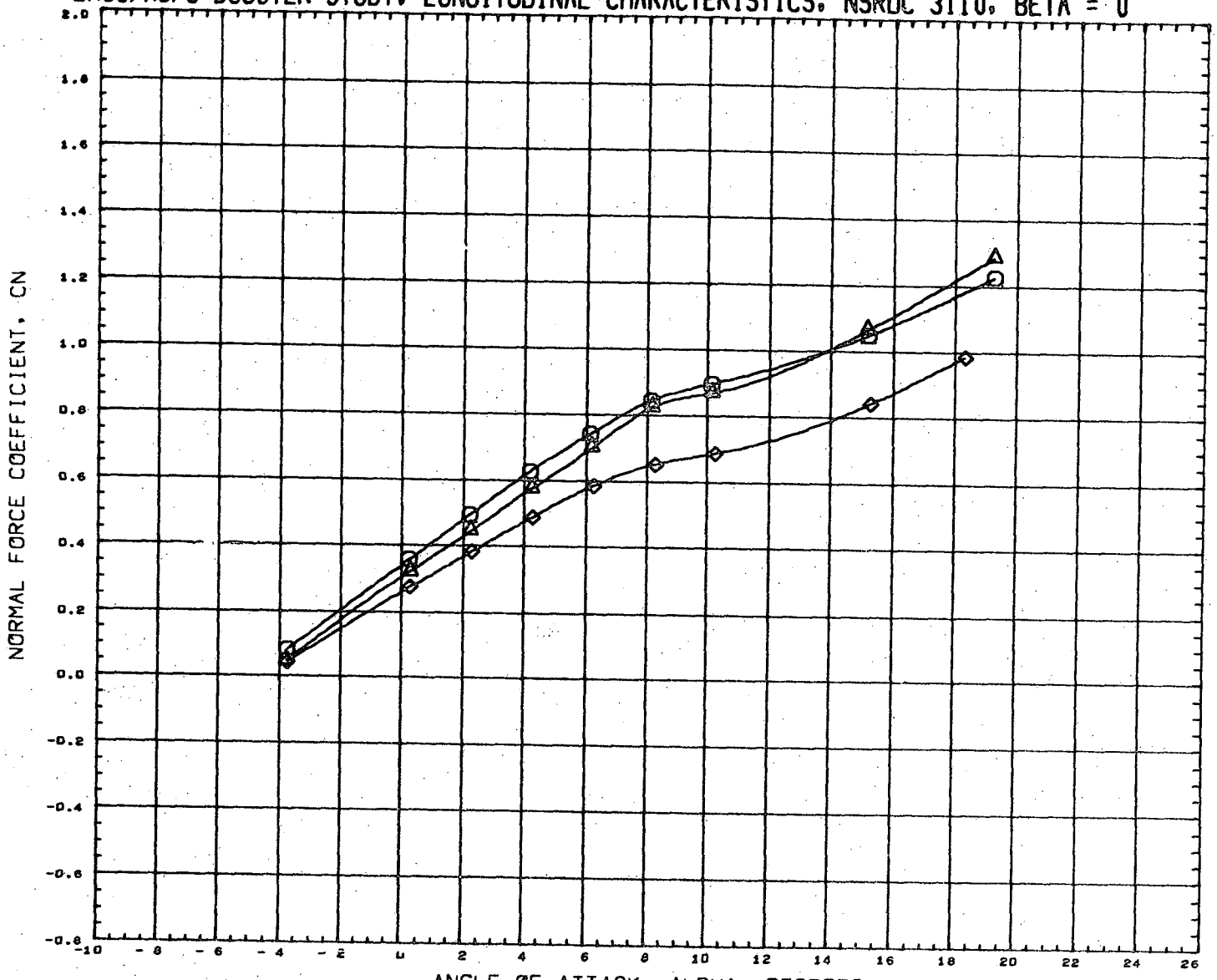
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2042)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2234)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2294)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGFOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

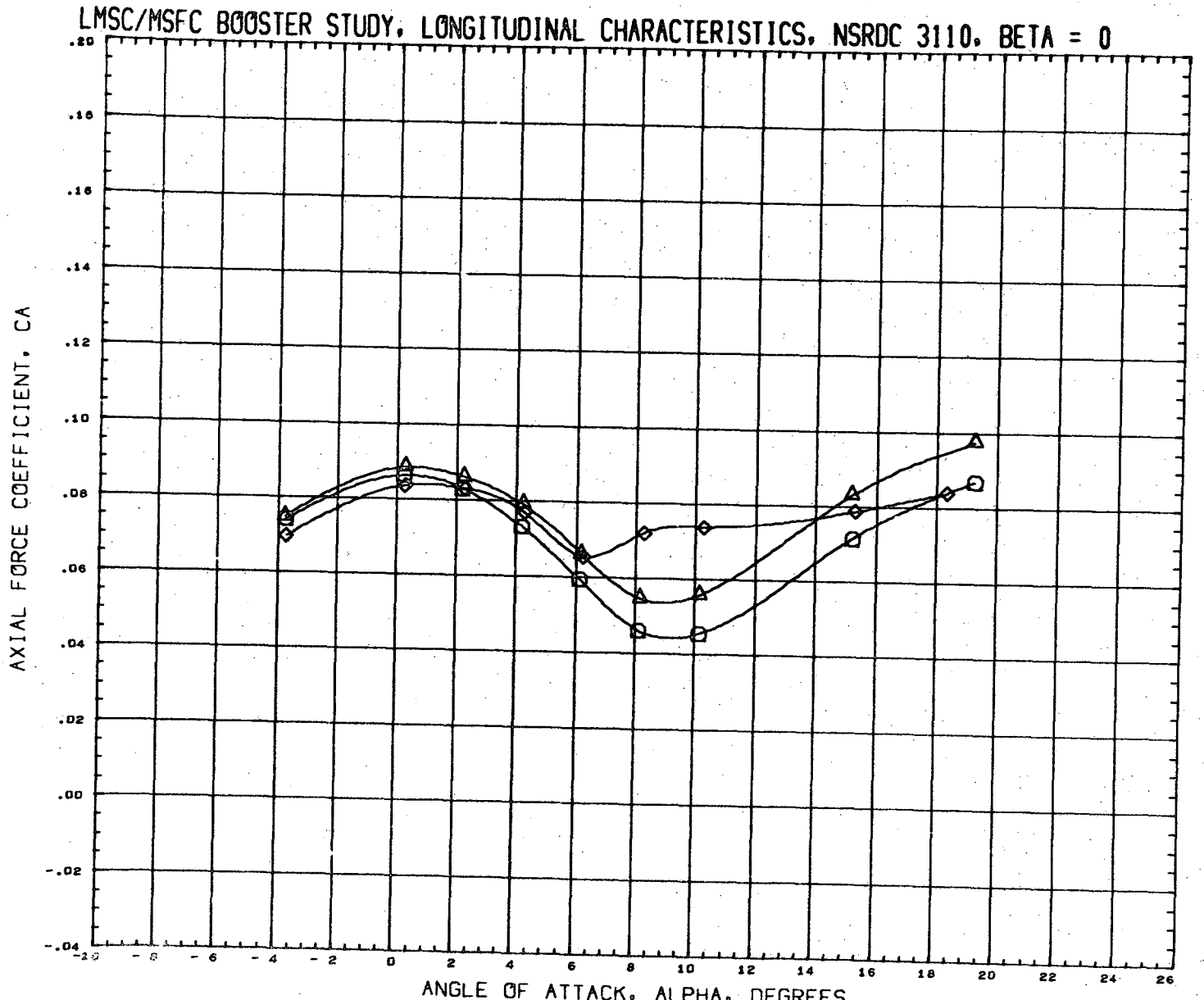
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2045)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000
(RN2237)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2297)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2045) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2237) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2297) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

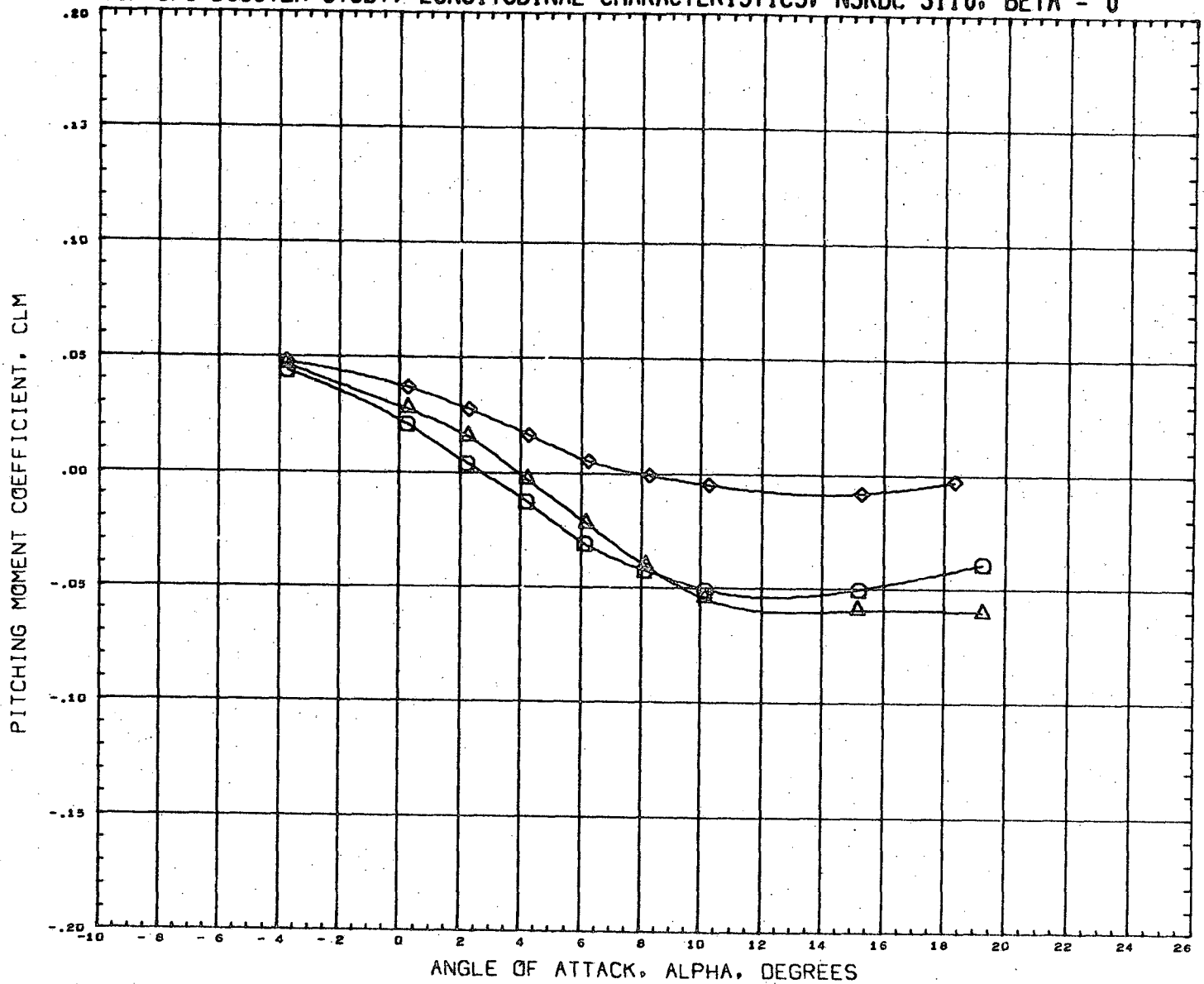
INCIDC	CNDFOS	INCIDW	WNGFOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

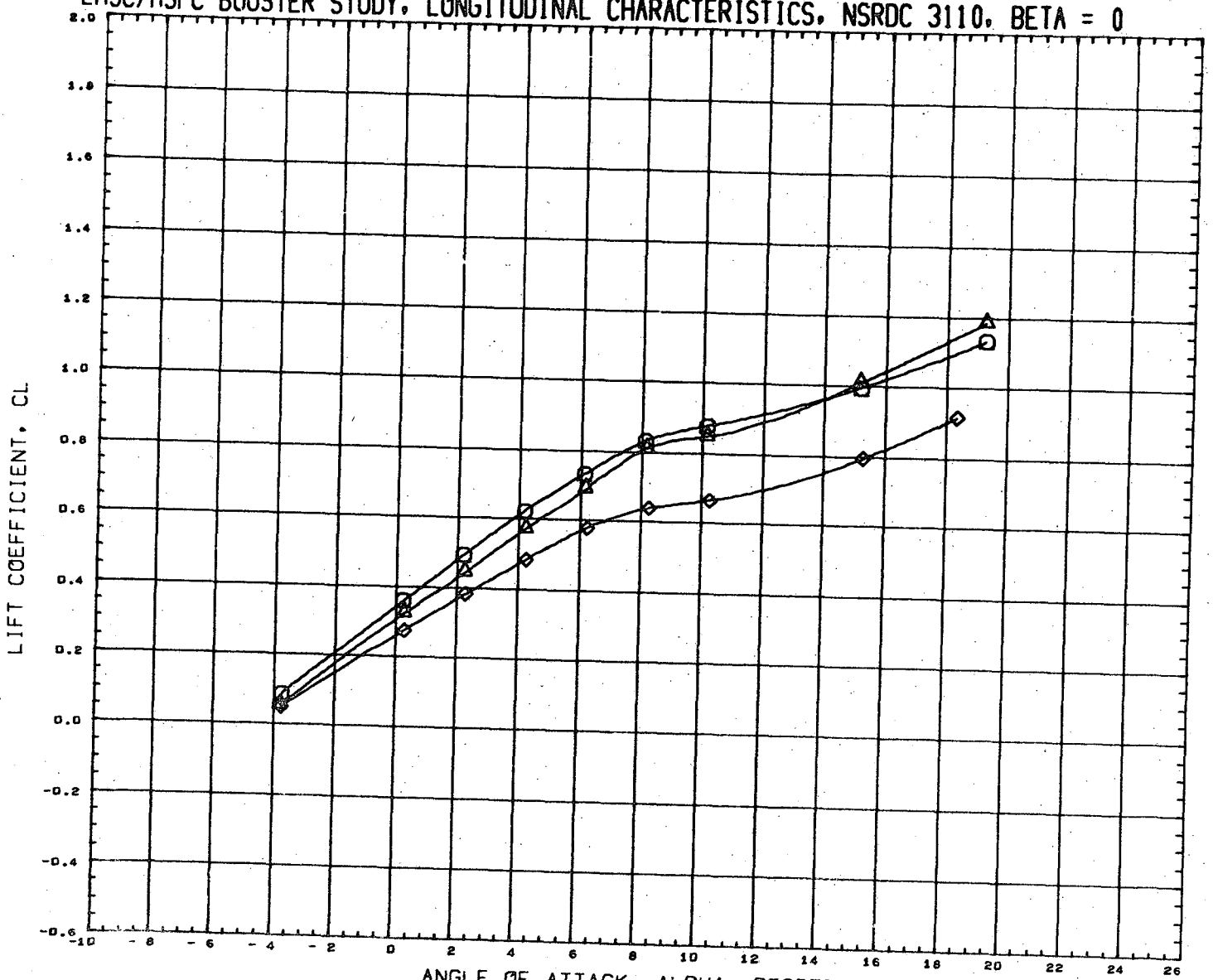
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2045) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000
(RN2237) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2297) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

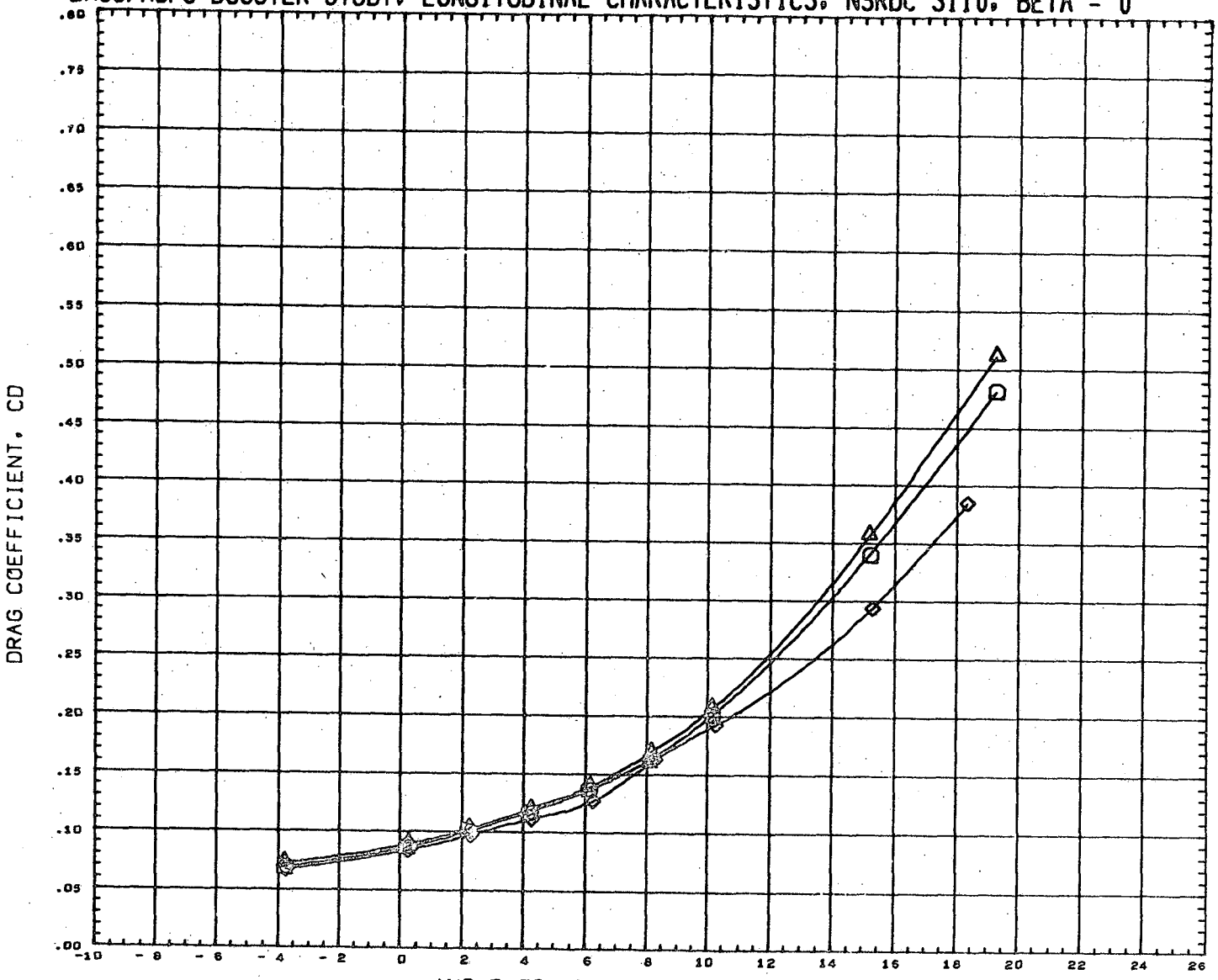


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2045)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000
(RN2237)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2297)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

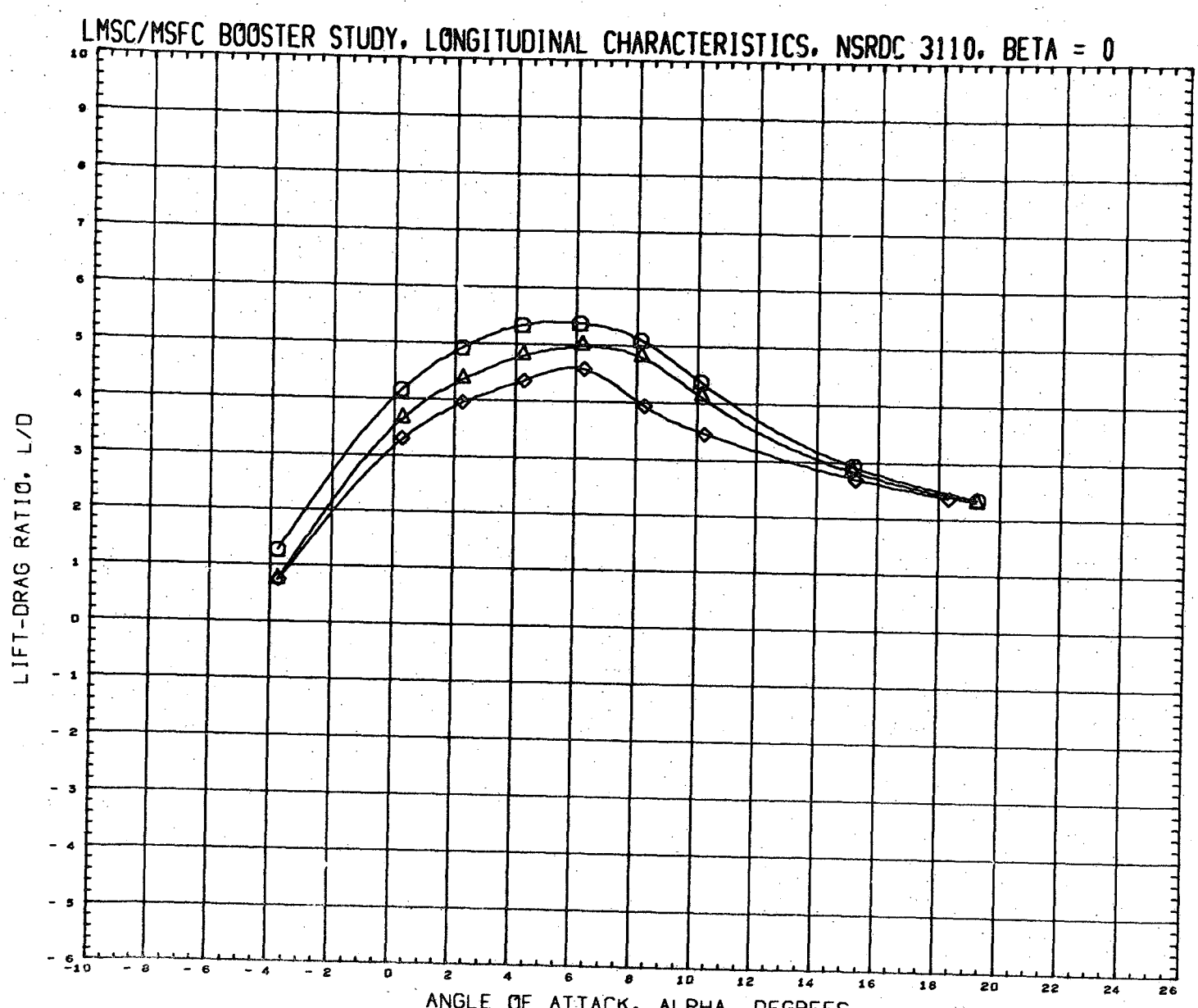
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2045)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000
(RN2237)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2297)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



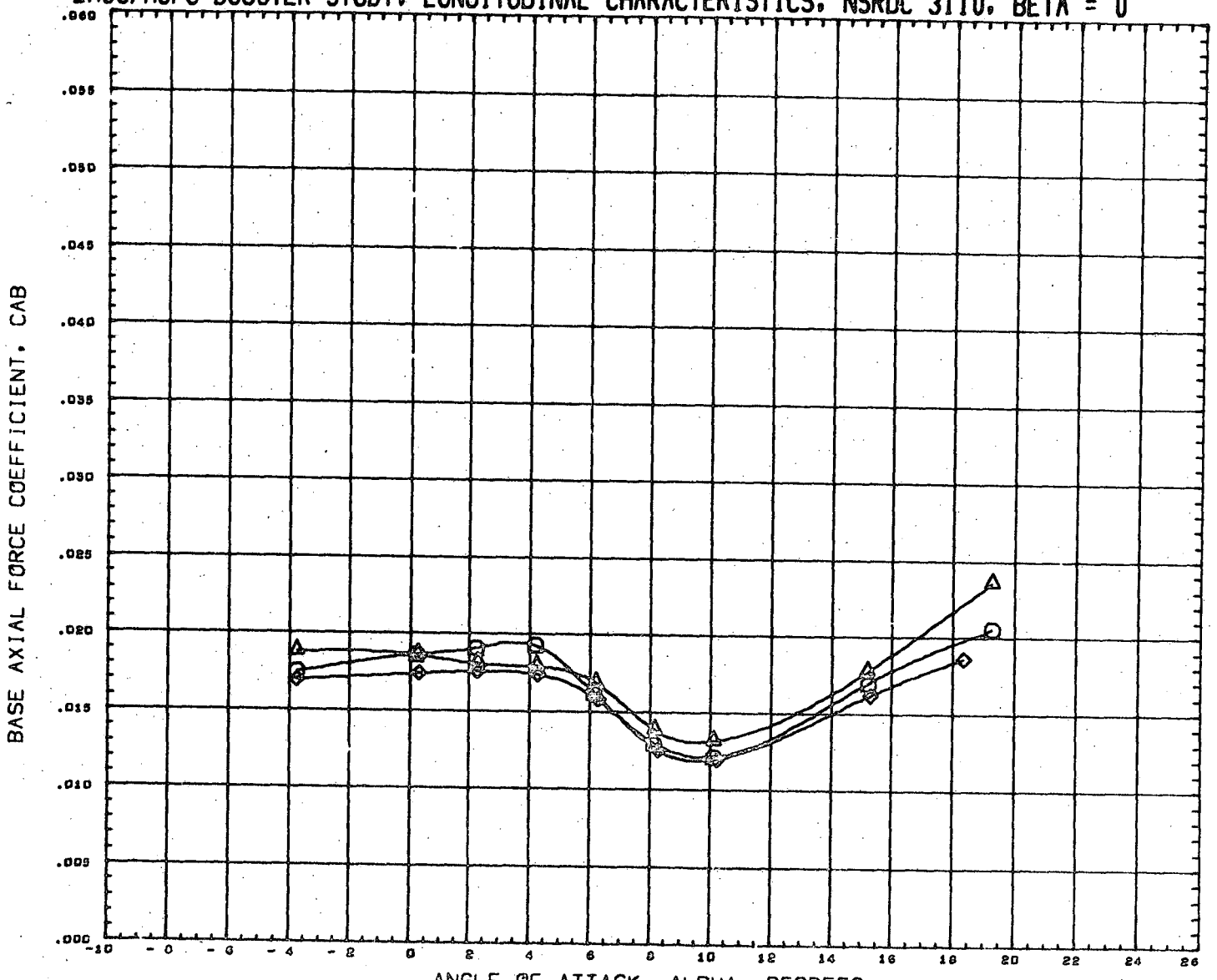
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2045) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2237) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2297) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

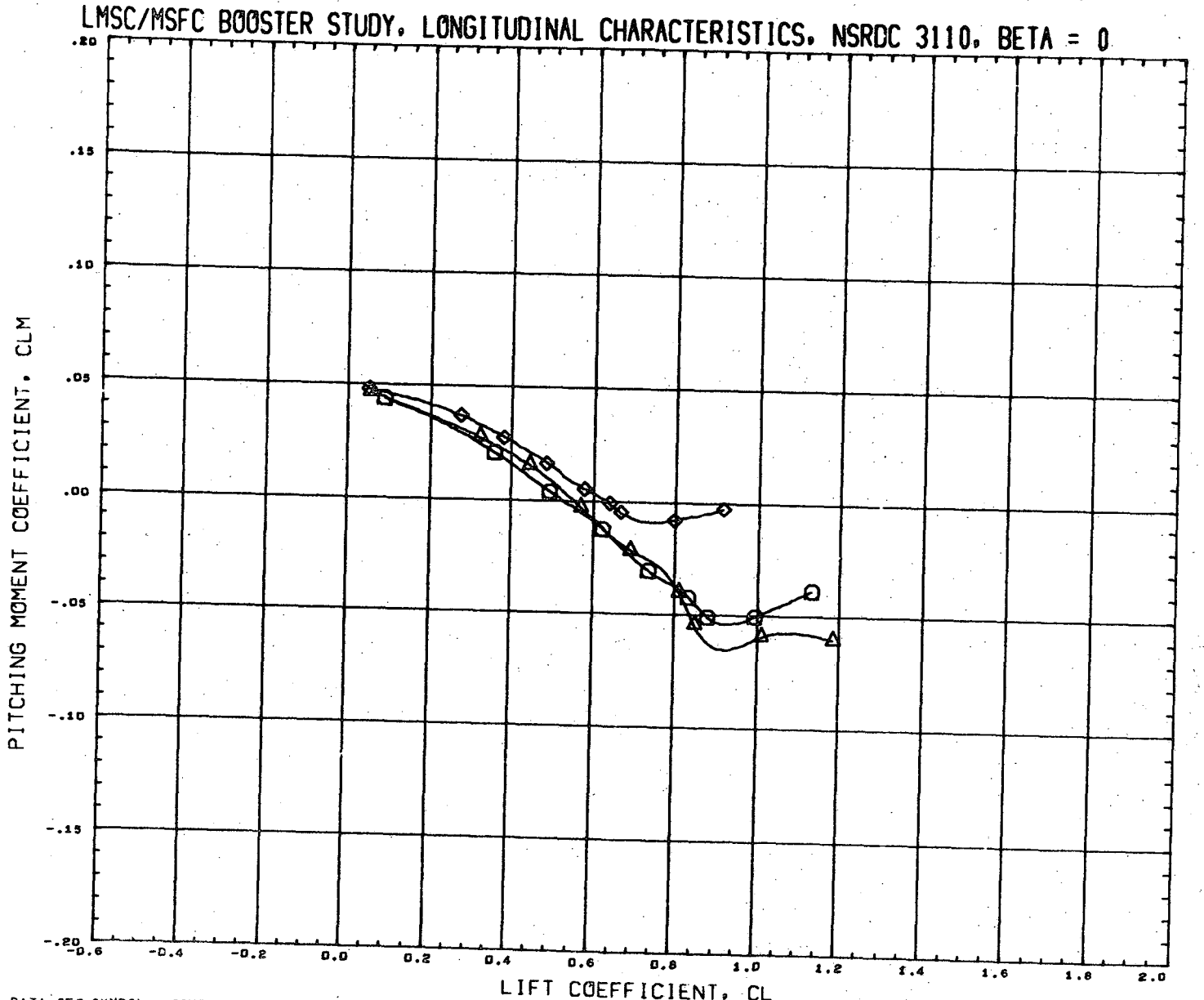
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2045)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000
(RN2237)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2297)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.362



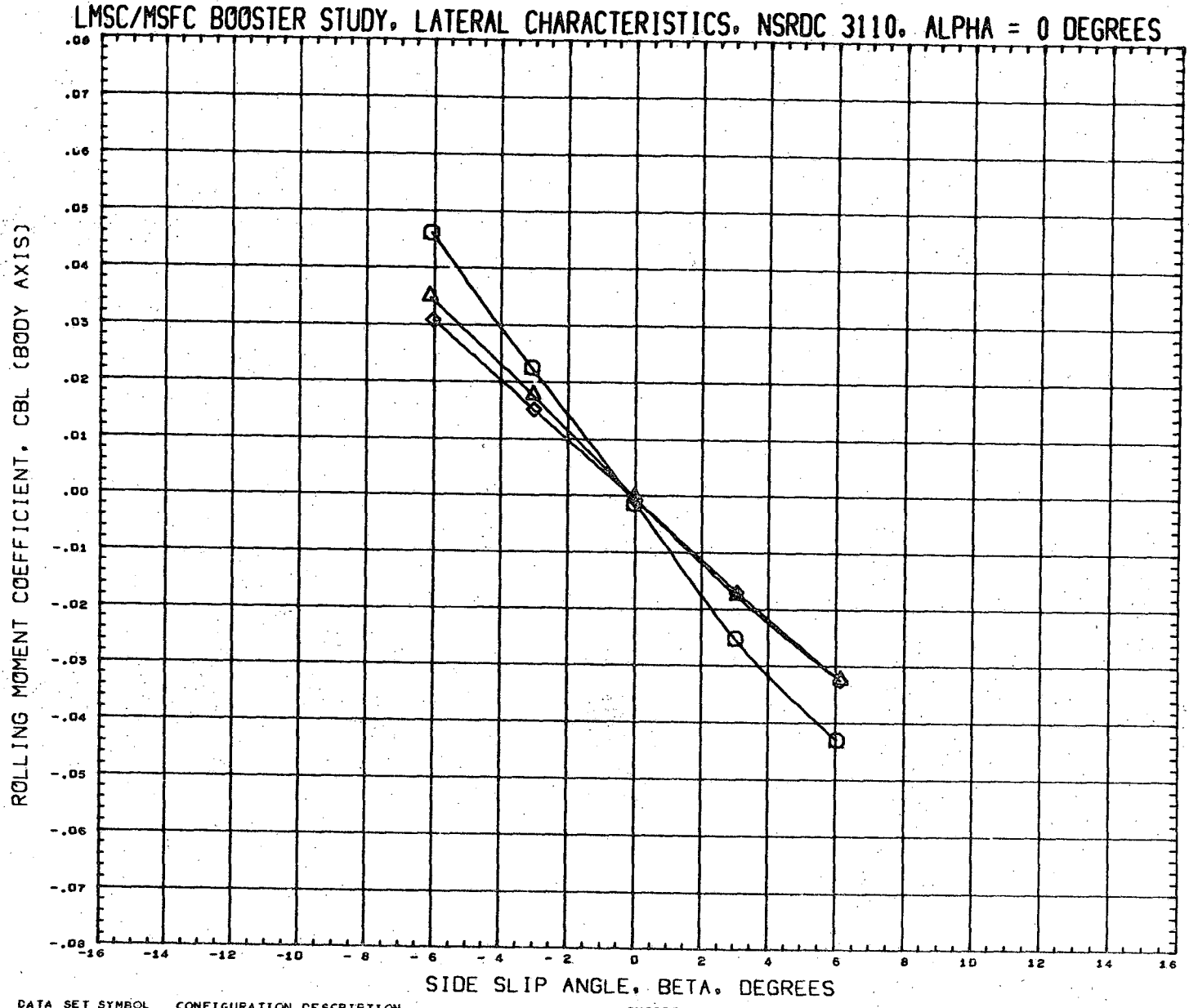
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2045)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2237)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2297)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000

MACH 0.382

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

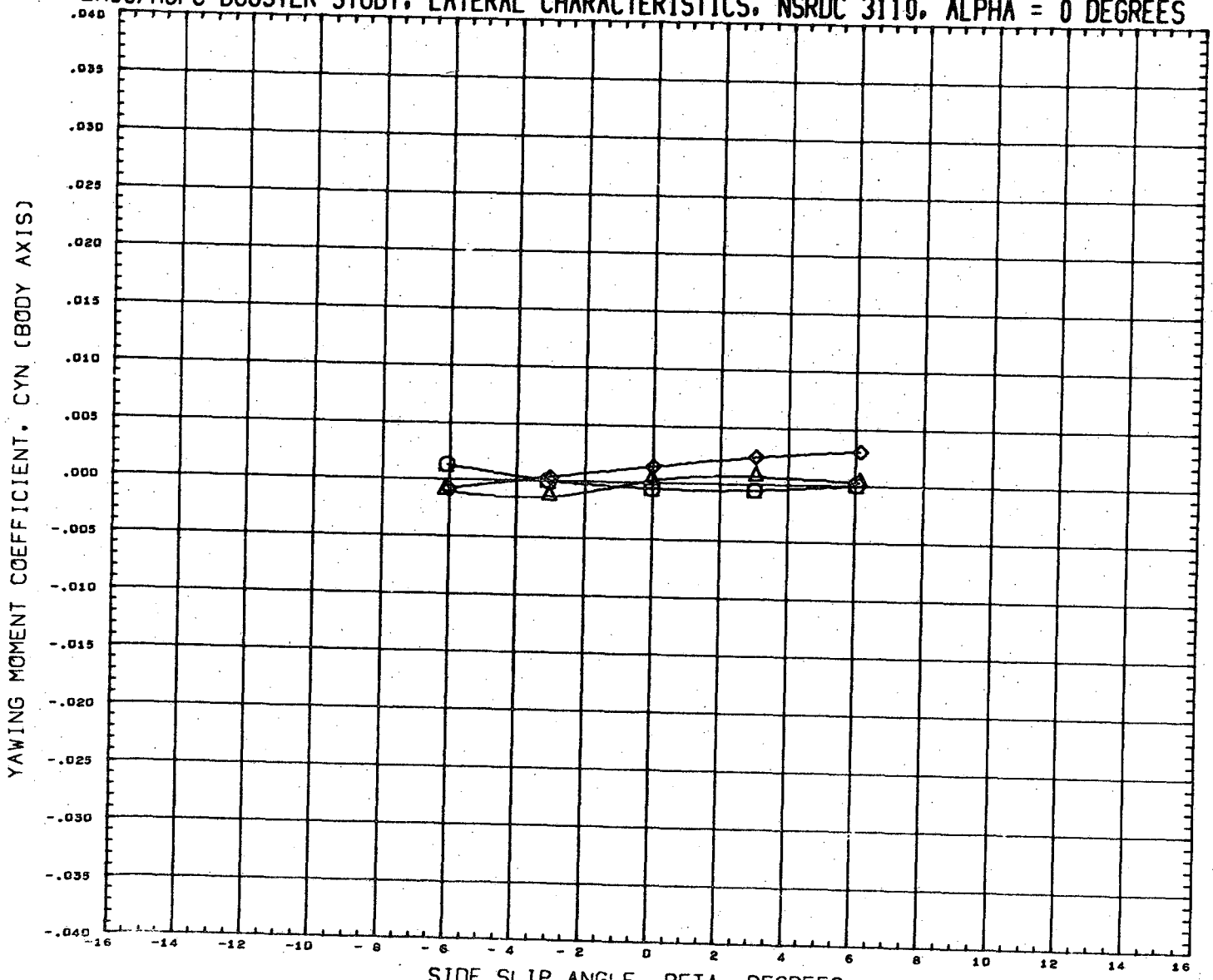


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2046)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000
(RN2238)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2298)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2046)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2238)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2298)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

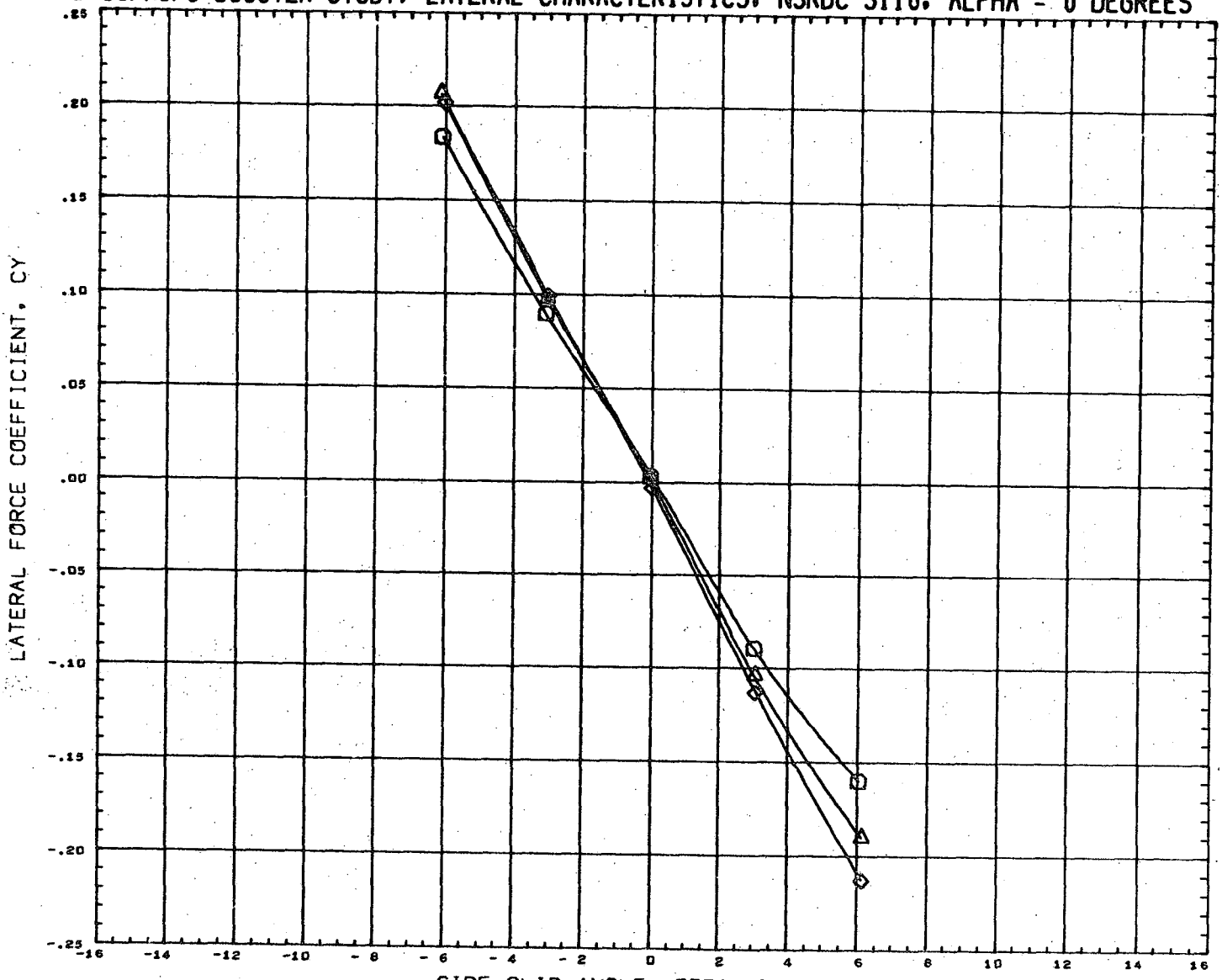
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

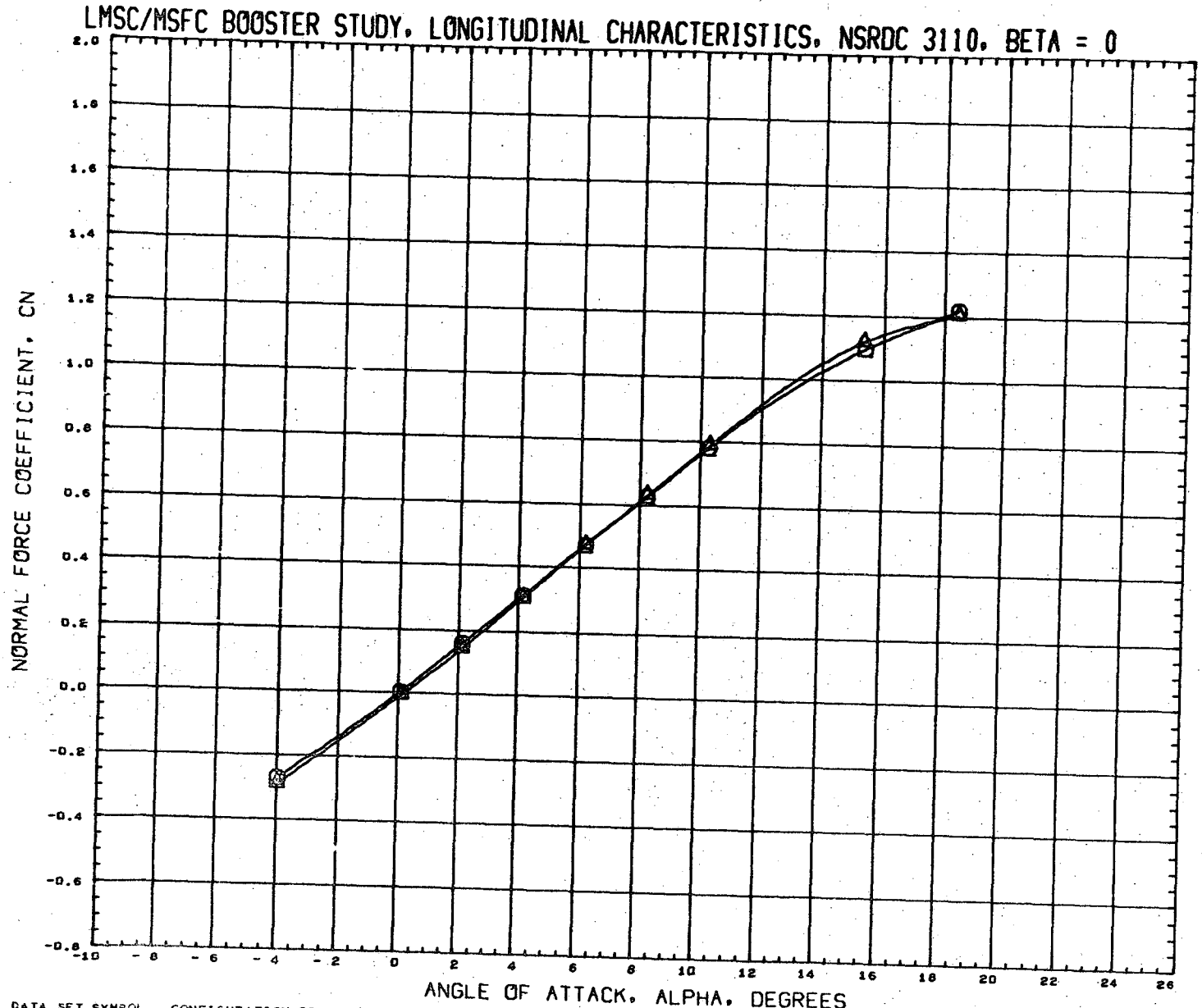
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2046)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000
(RN2238)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2298)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

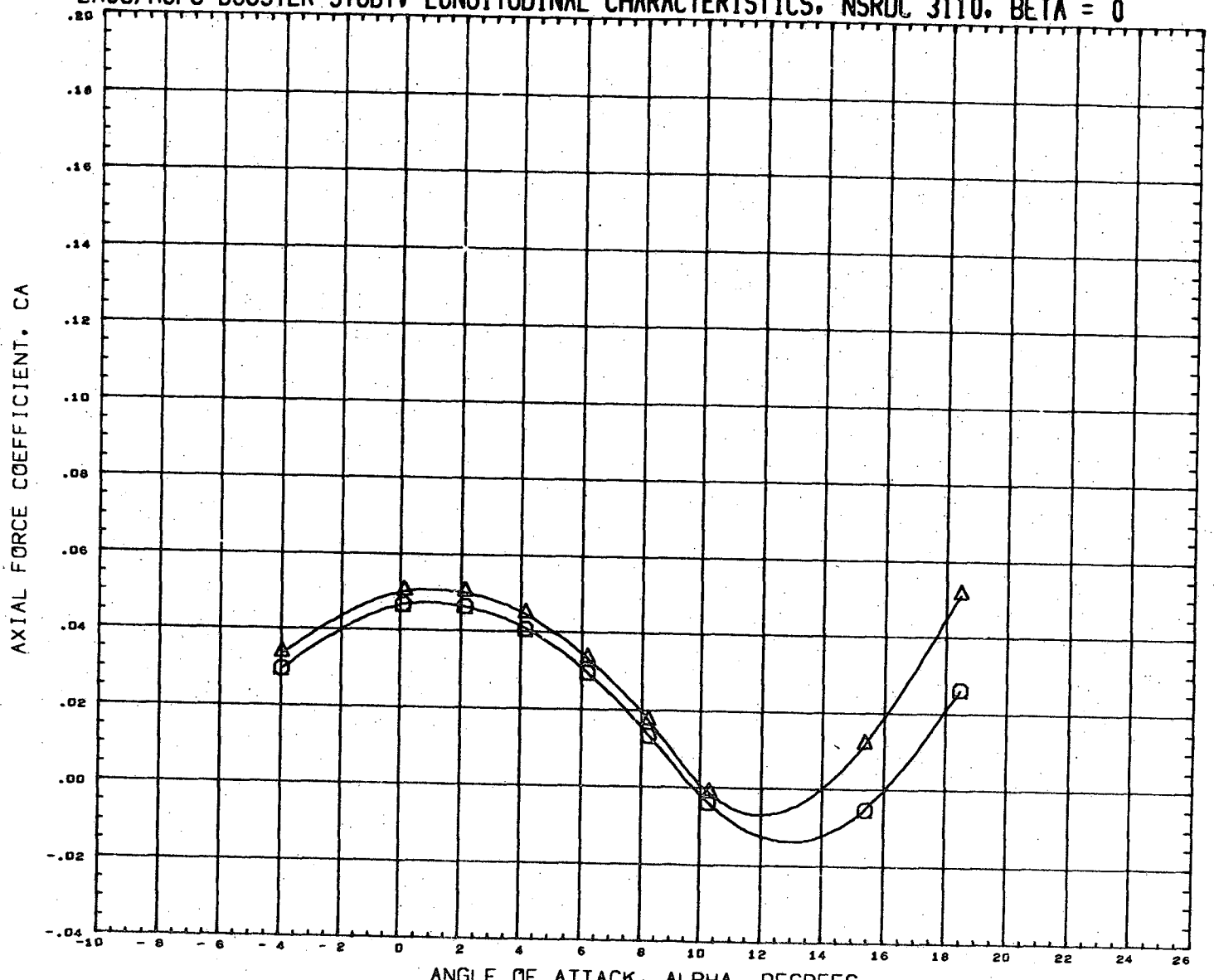


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS
(RN2017)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000
(RN2209)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

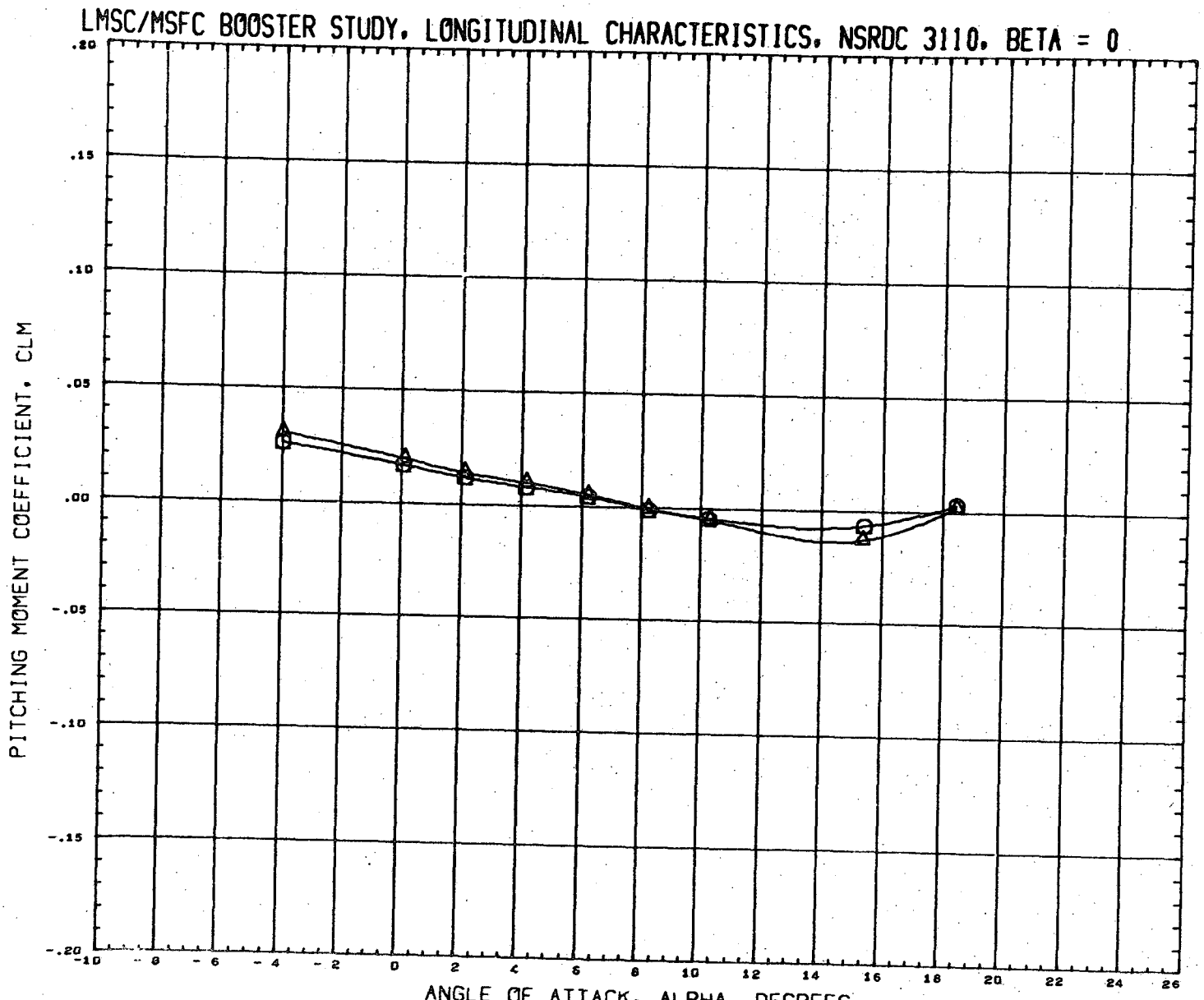
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2017)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000
(RN2209)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2017)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2209)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

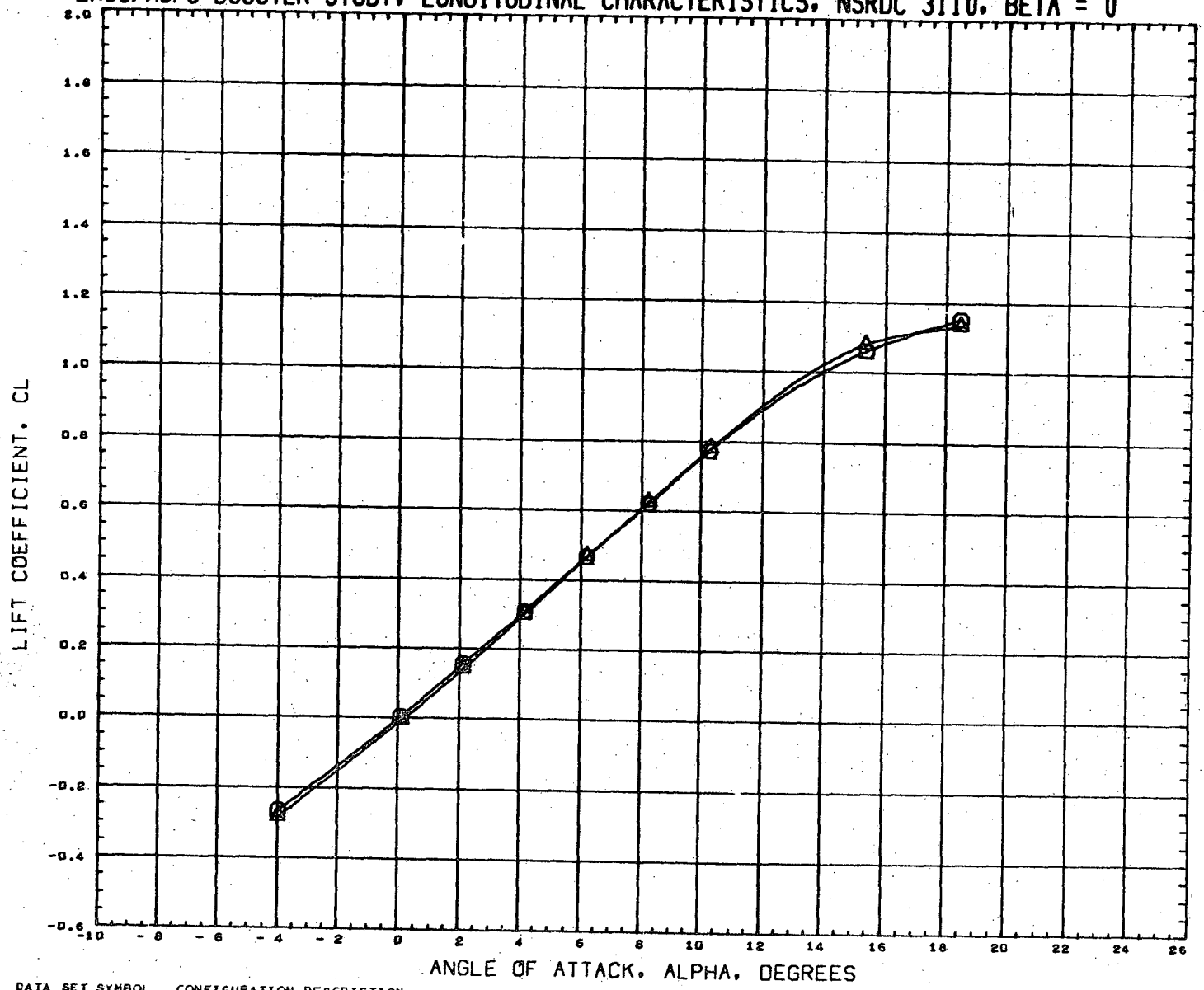
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	2.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

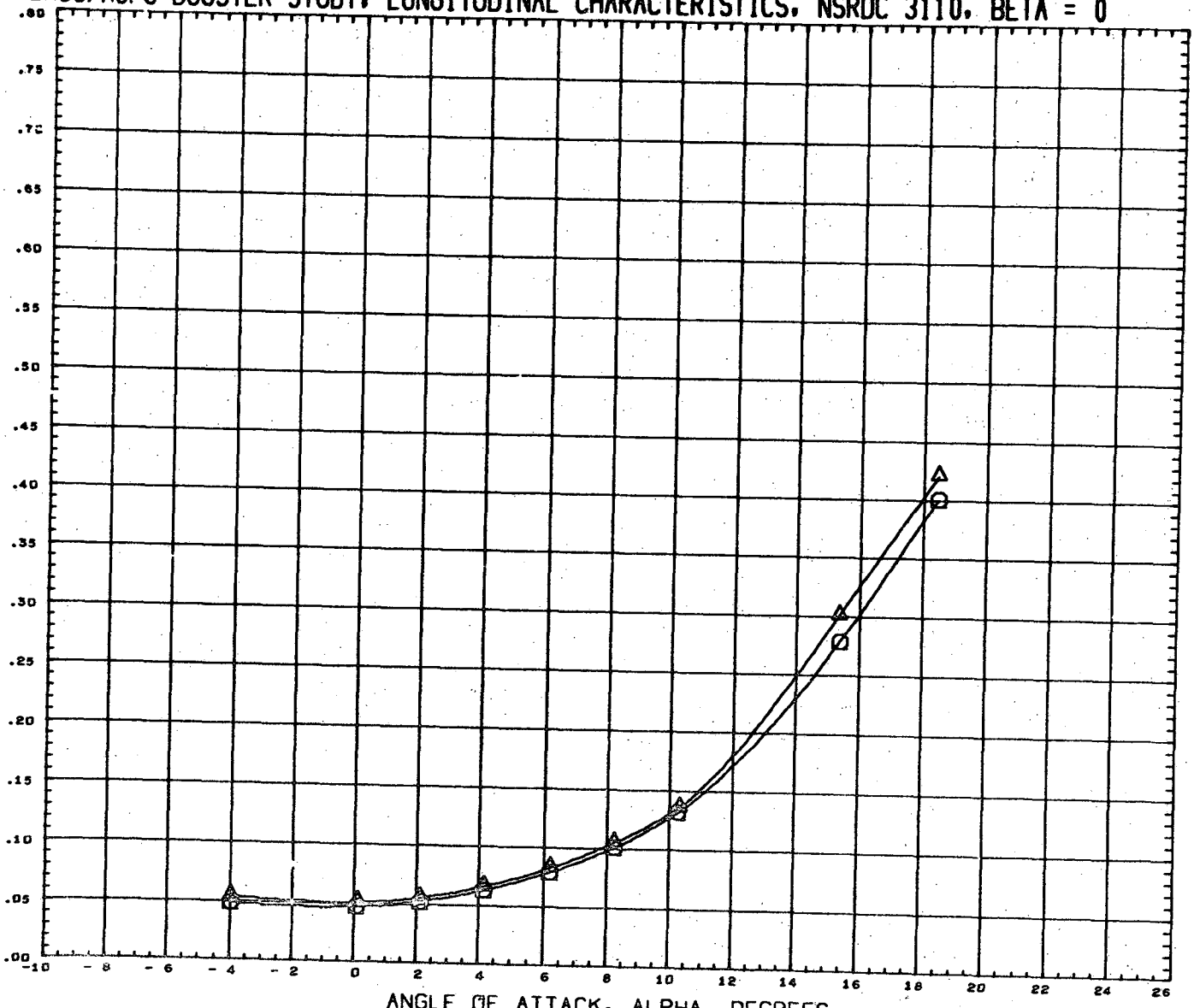


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2017)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000
(RN2209)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

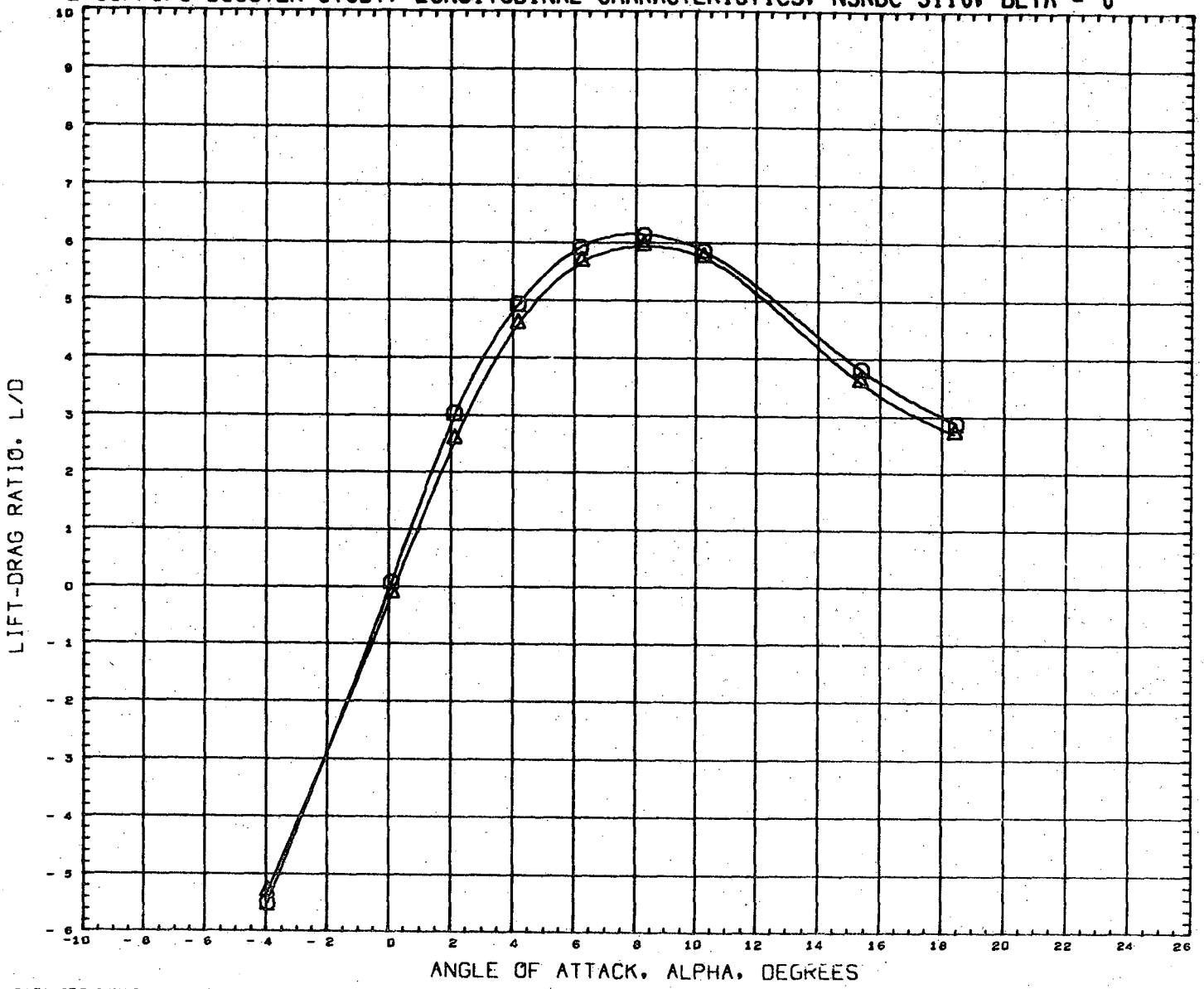


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2017) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000
(RN2209) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

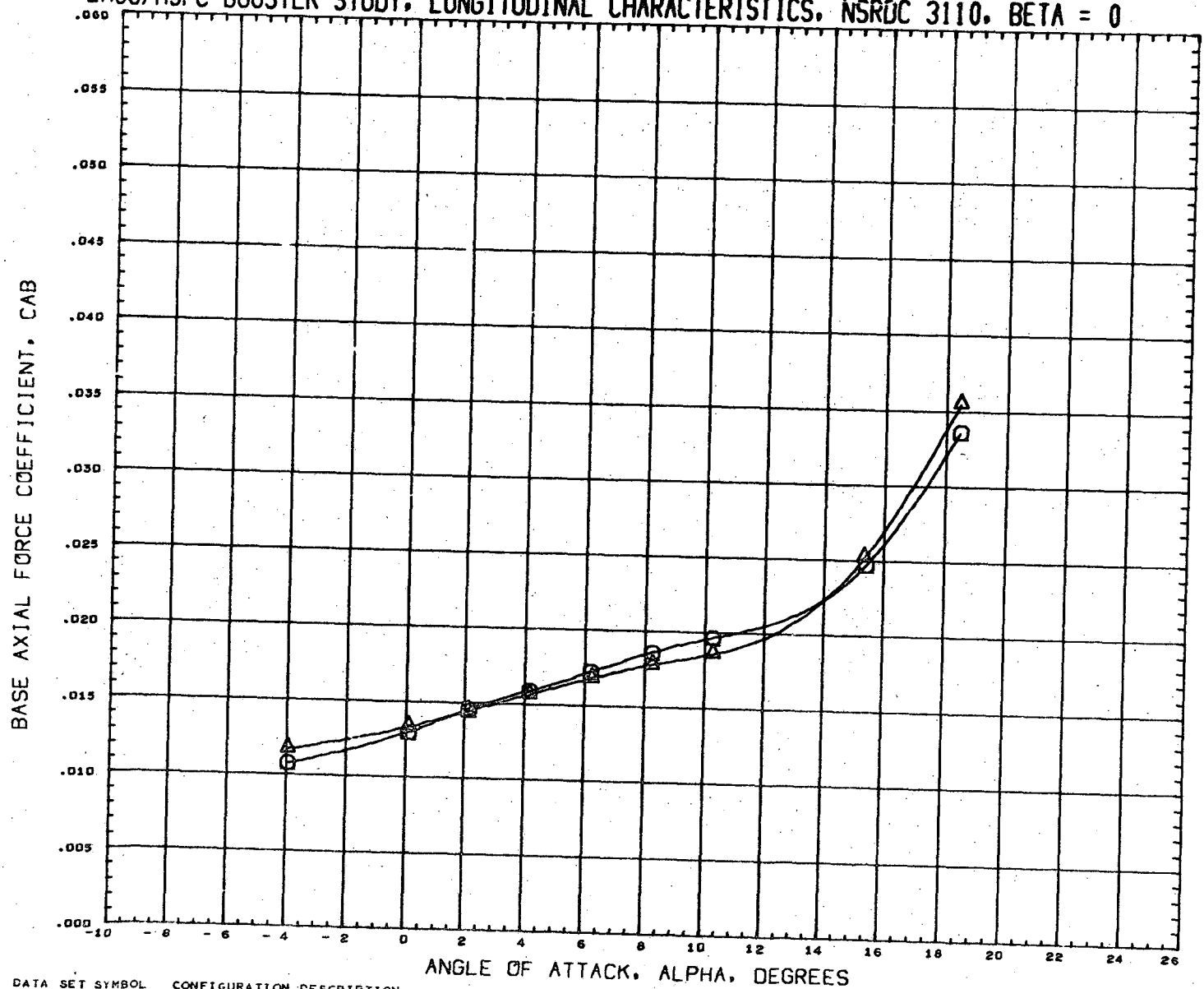
LMSC/MSFC BOOSTER STUDY. LONGITUDINAL CHARACTERISTICS. NSRDC 3110. BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2017)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000
(RN2209)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382



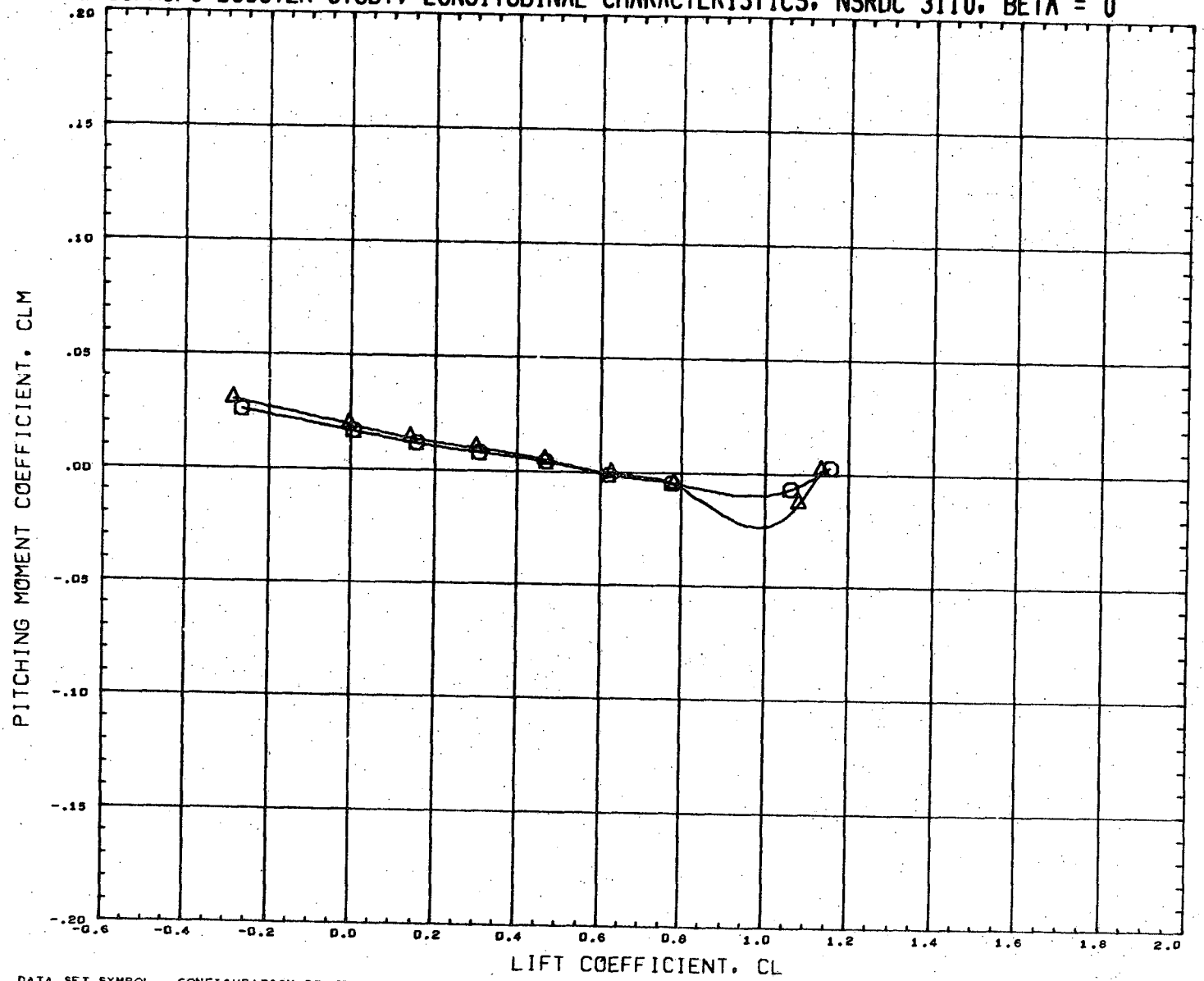
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2017)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000
(RN2209)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

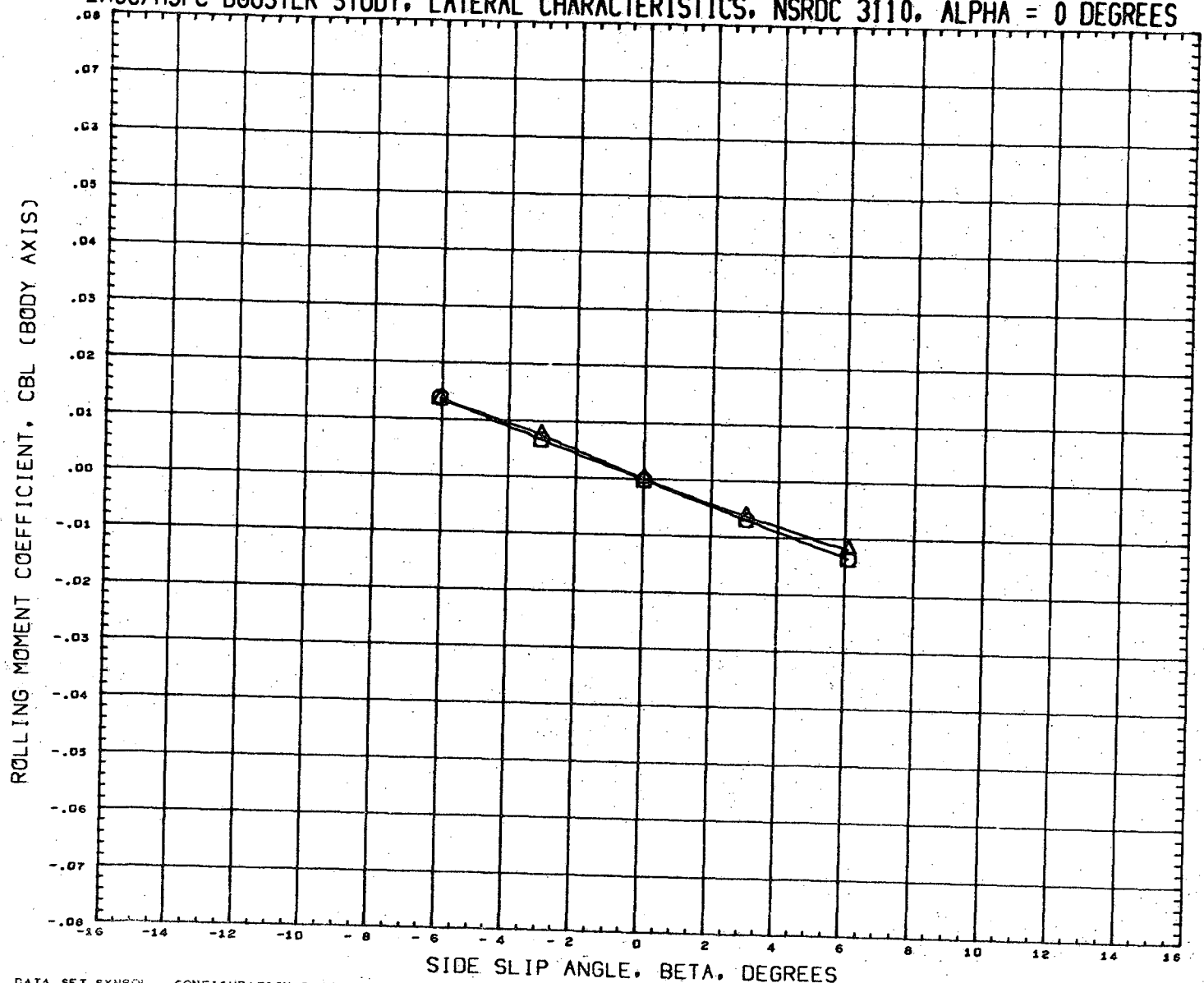


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2017)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000
(RN2209)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

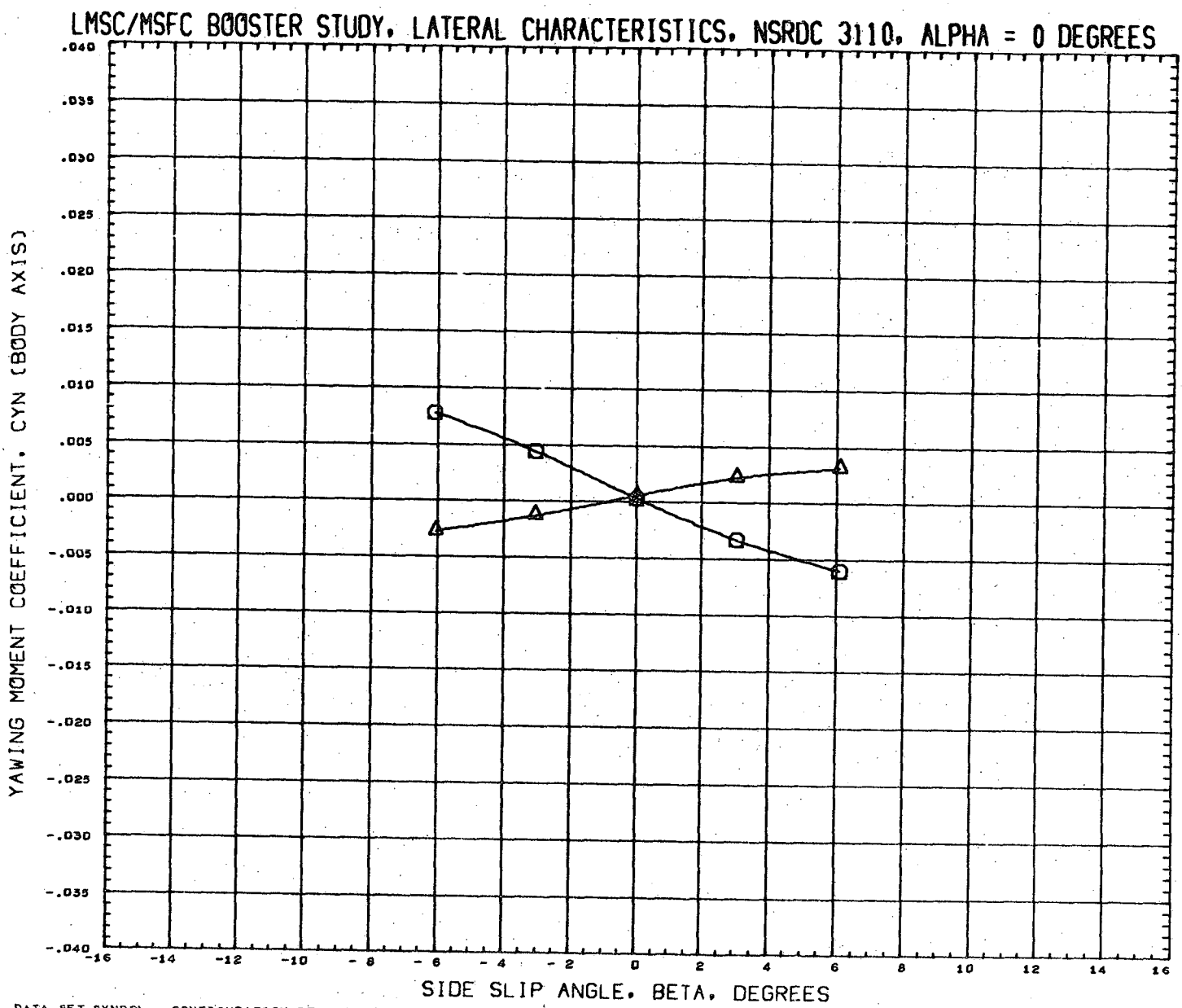
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2018) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000
(RN2210) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.381

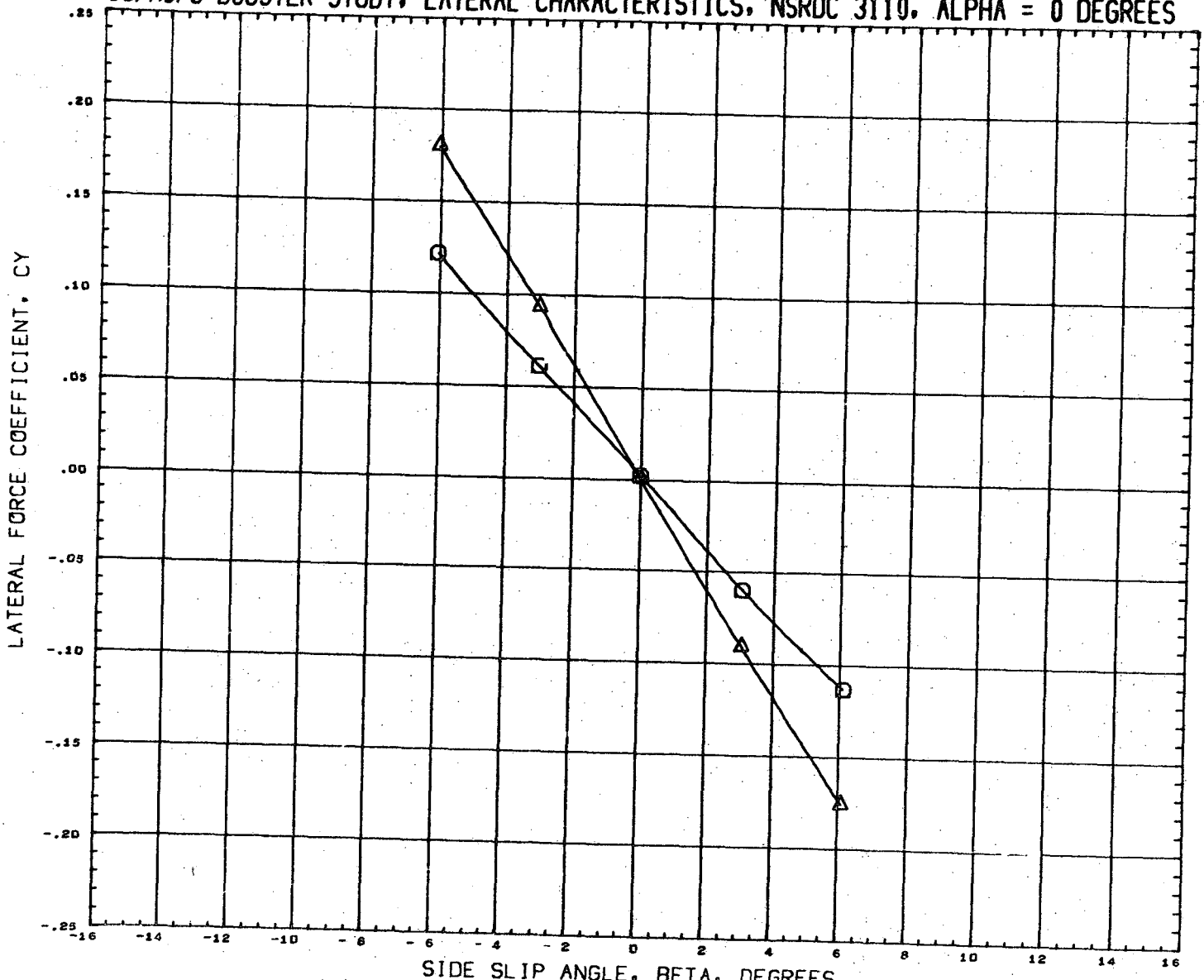
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2018)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000
(RN2210)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



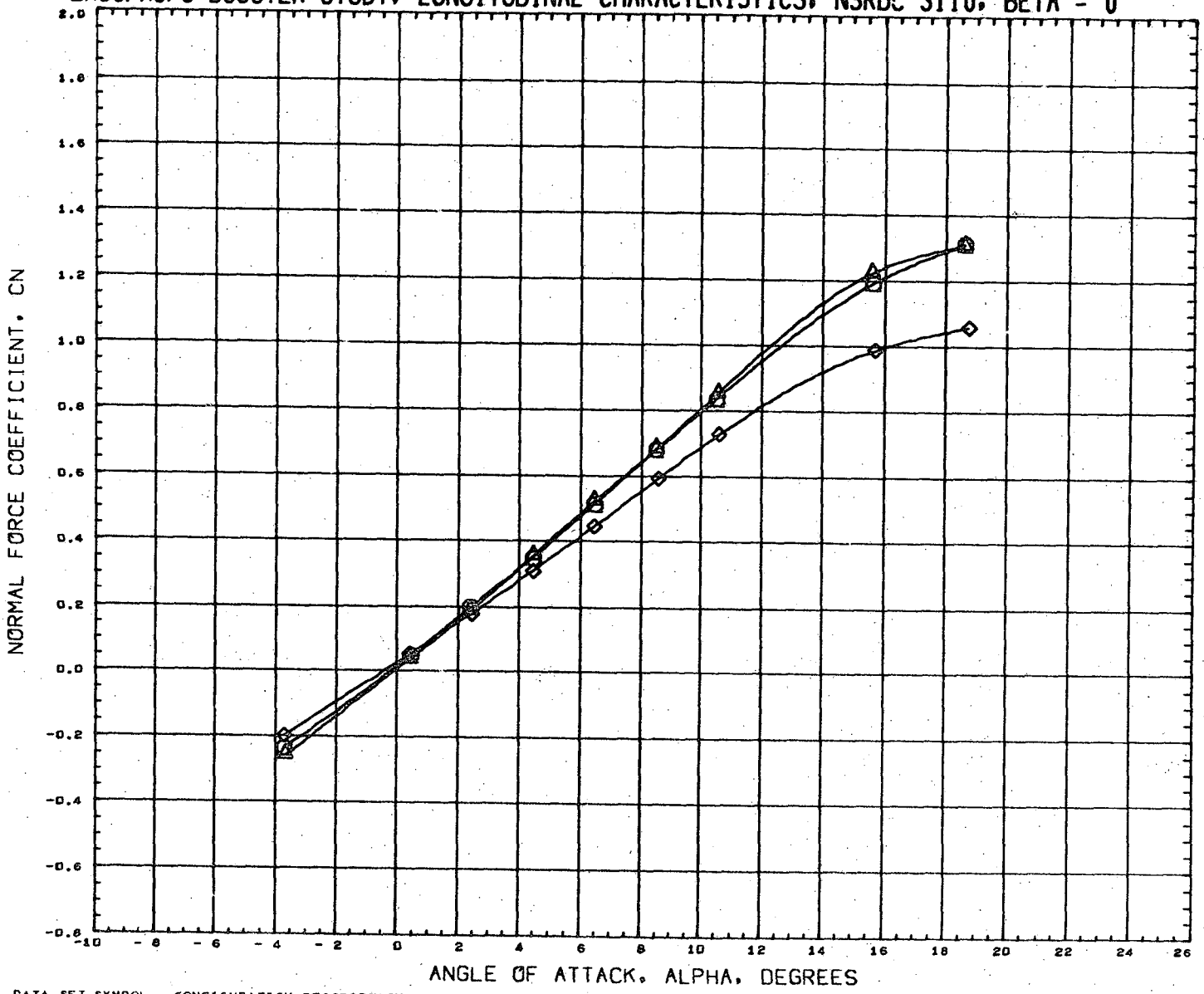
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2018)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2210)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	2.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

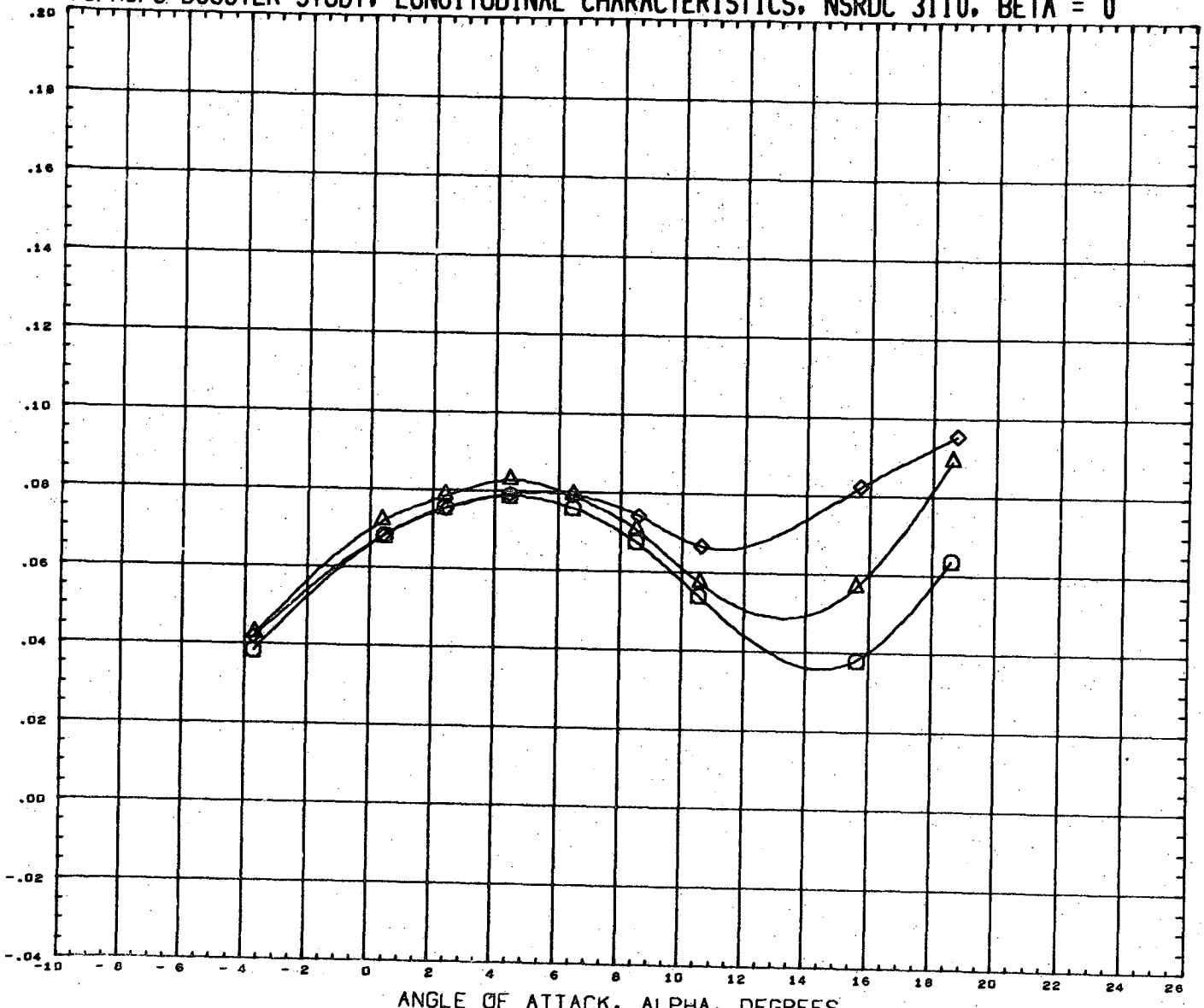


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2021)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000
(RN2213)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000
(RN2273)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



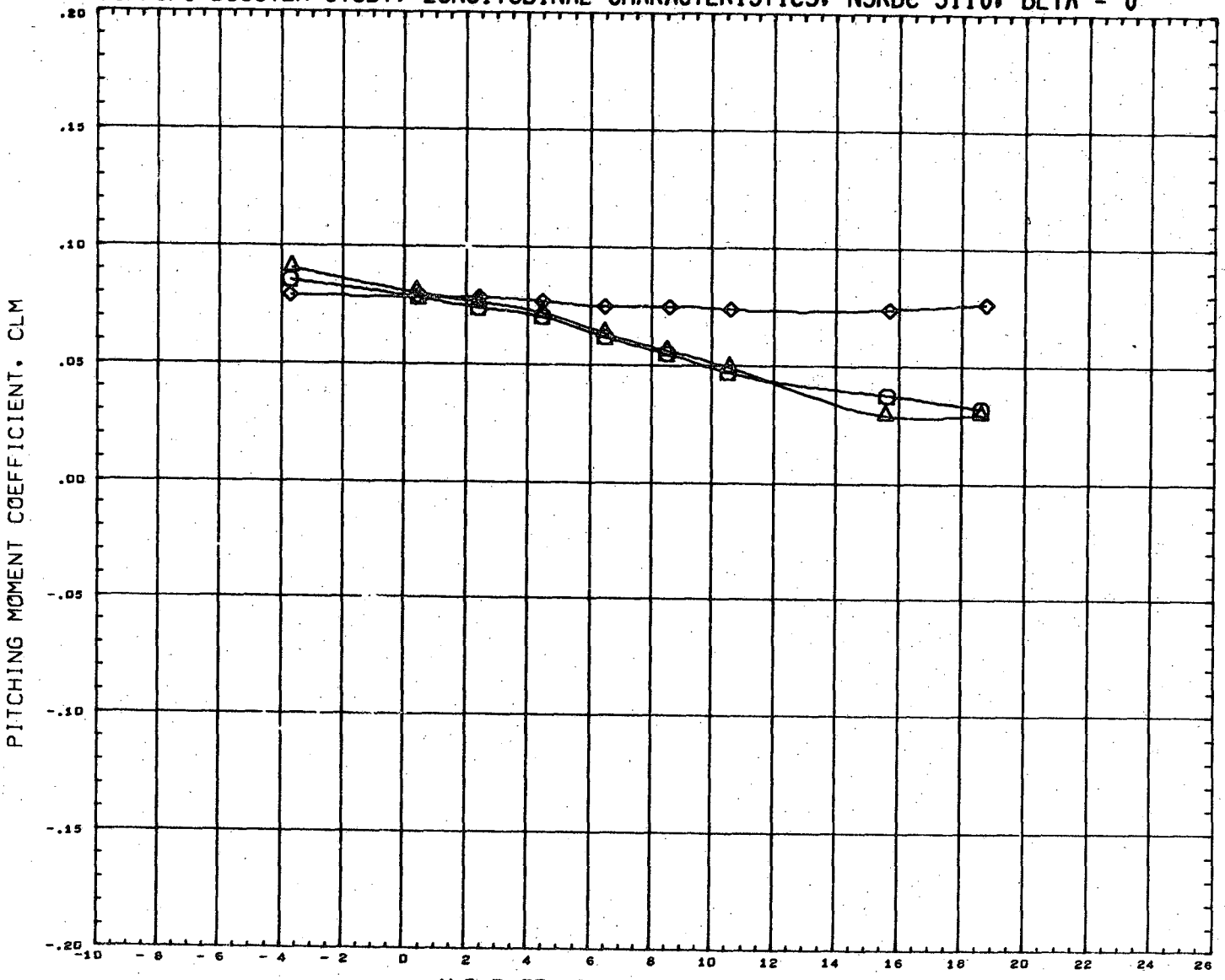
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2021) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2213) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2273) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

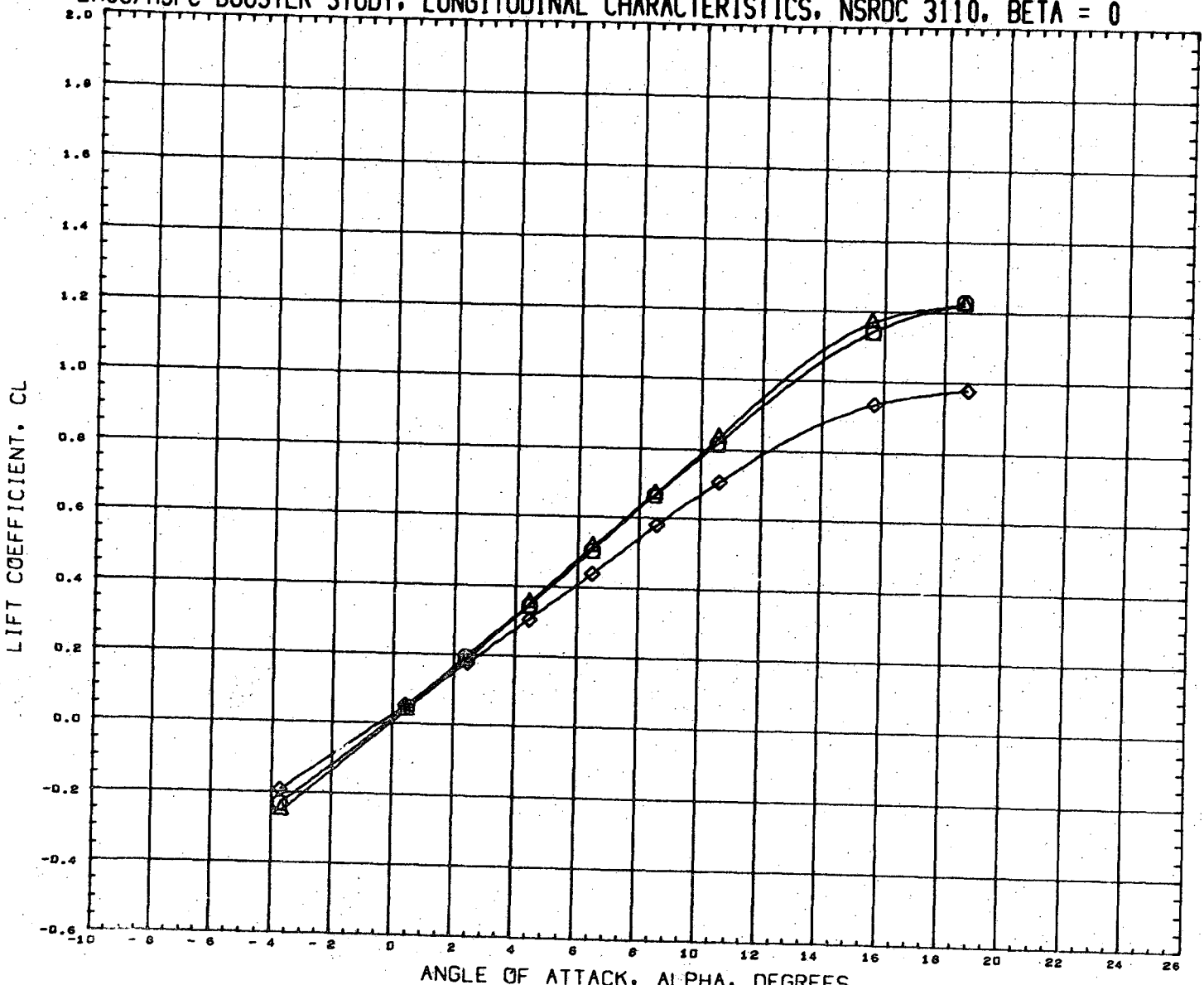
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2021)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000
(RN2213)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000
(RN2273)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2021)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2213)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2273)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

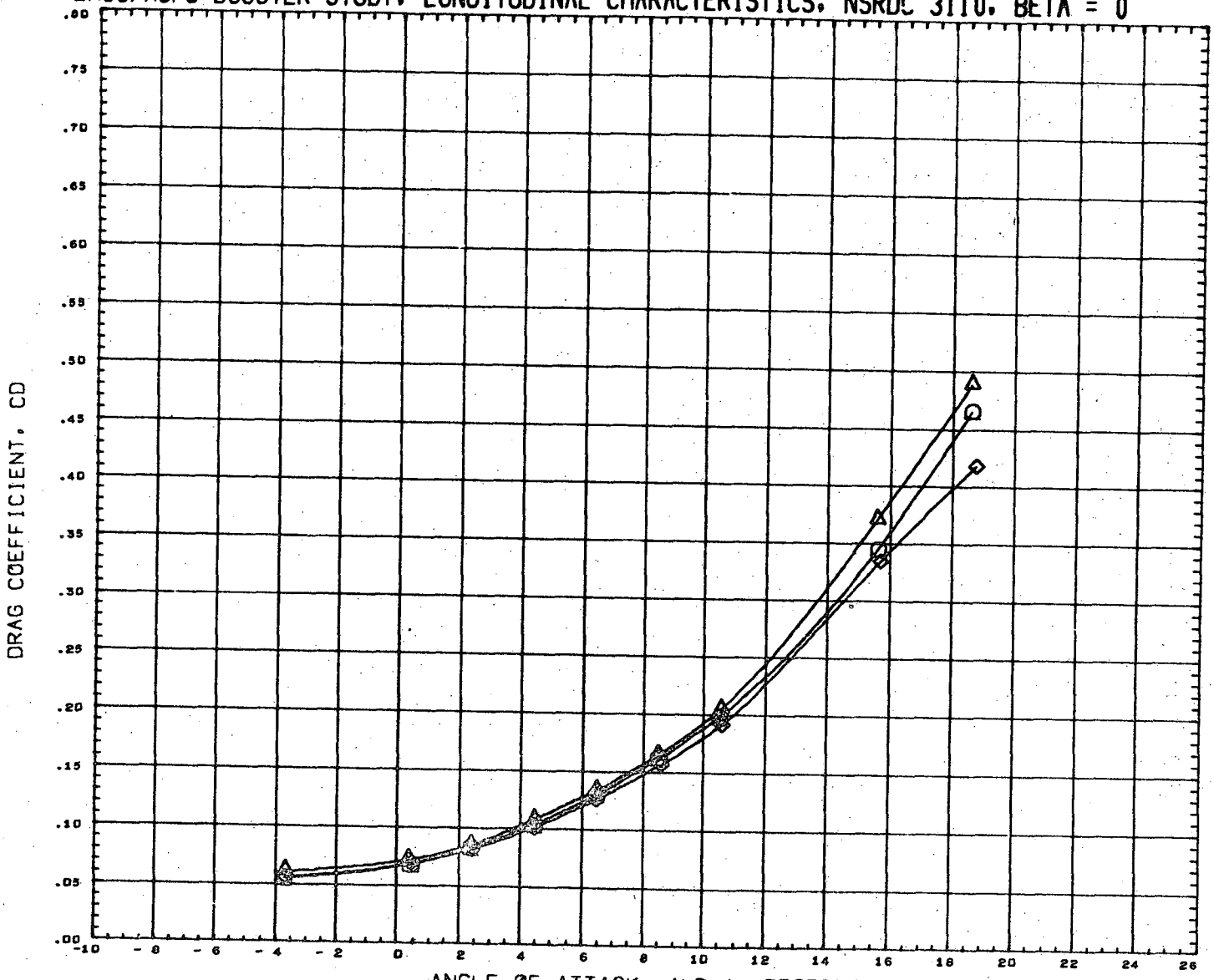
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



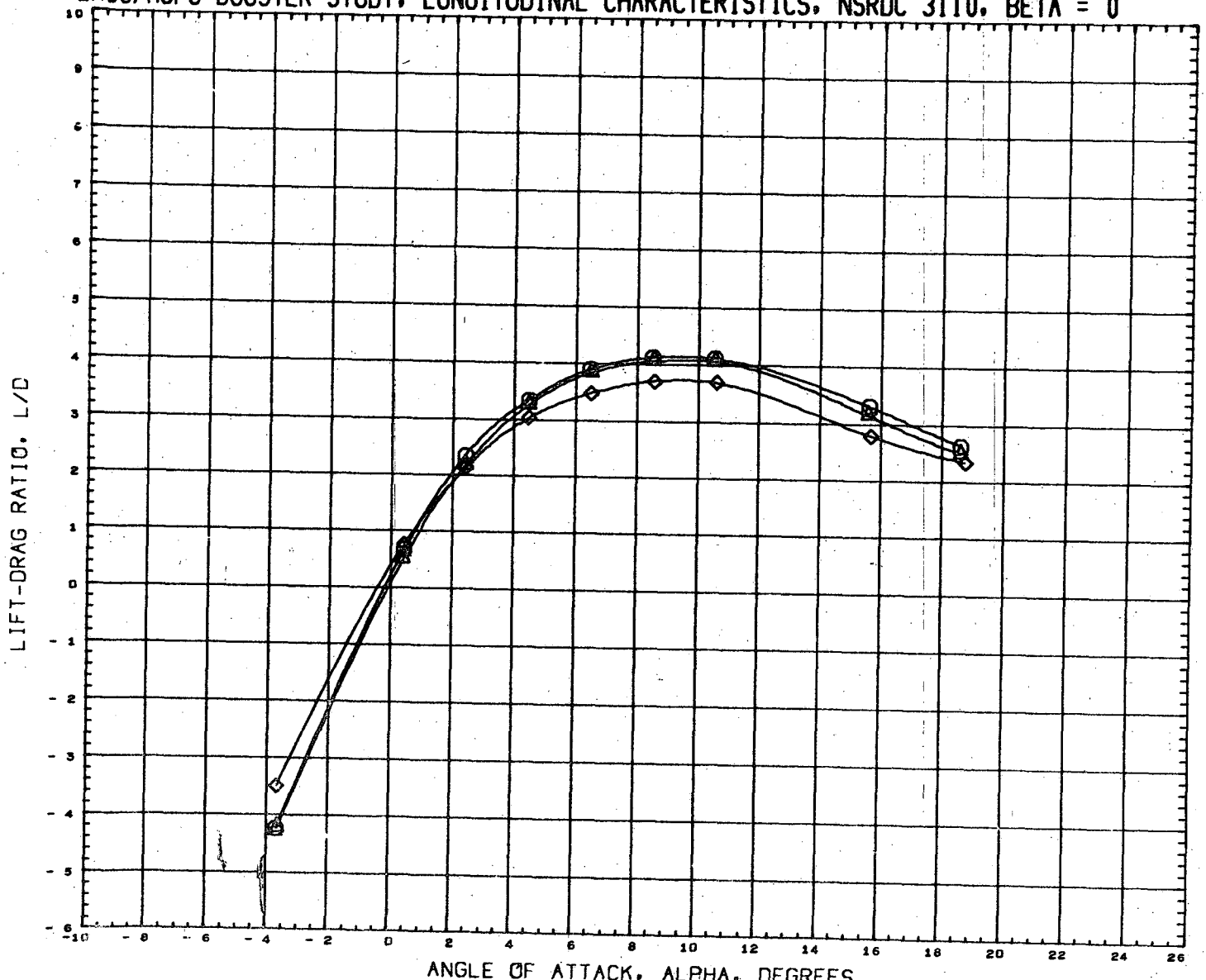
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2021) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2213) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2273) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

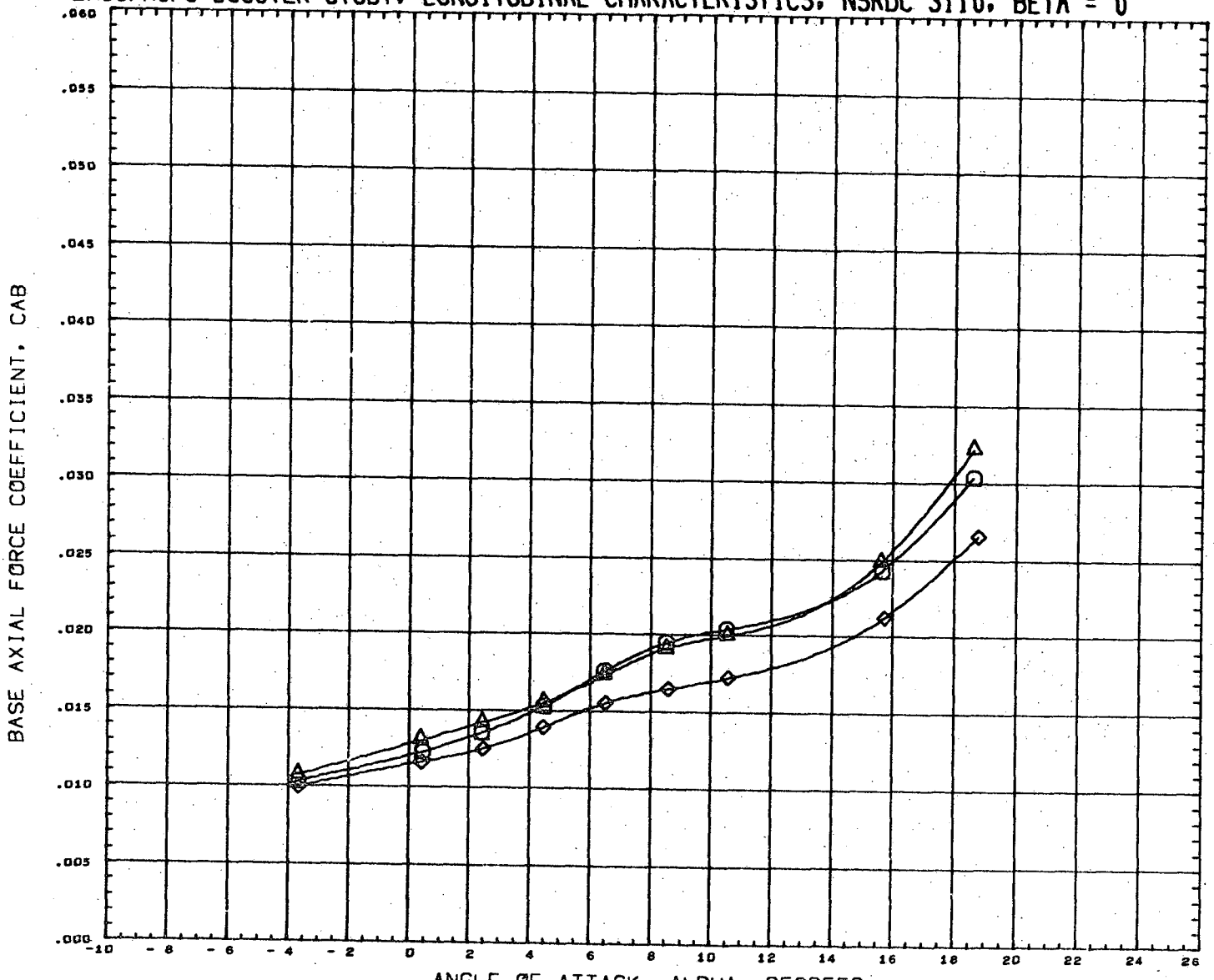


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2021)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000
(RN2213)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000
(RN2273)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

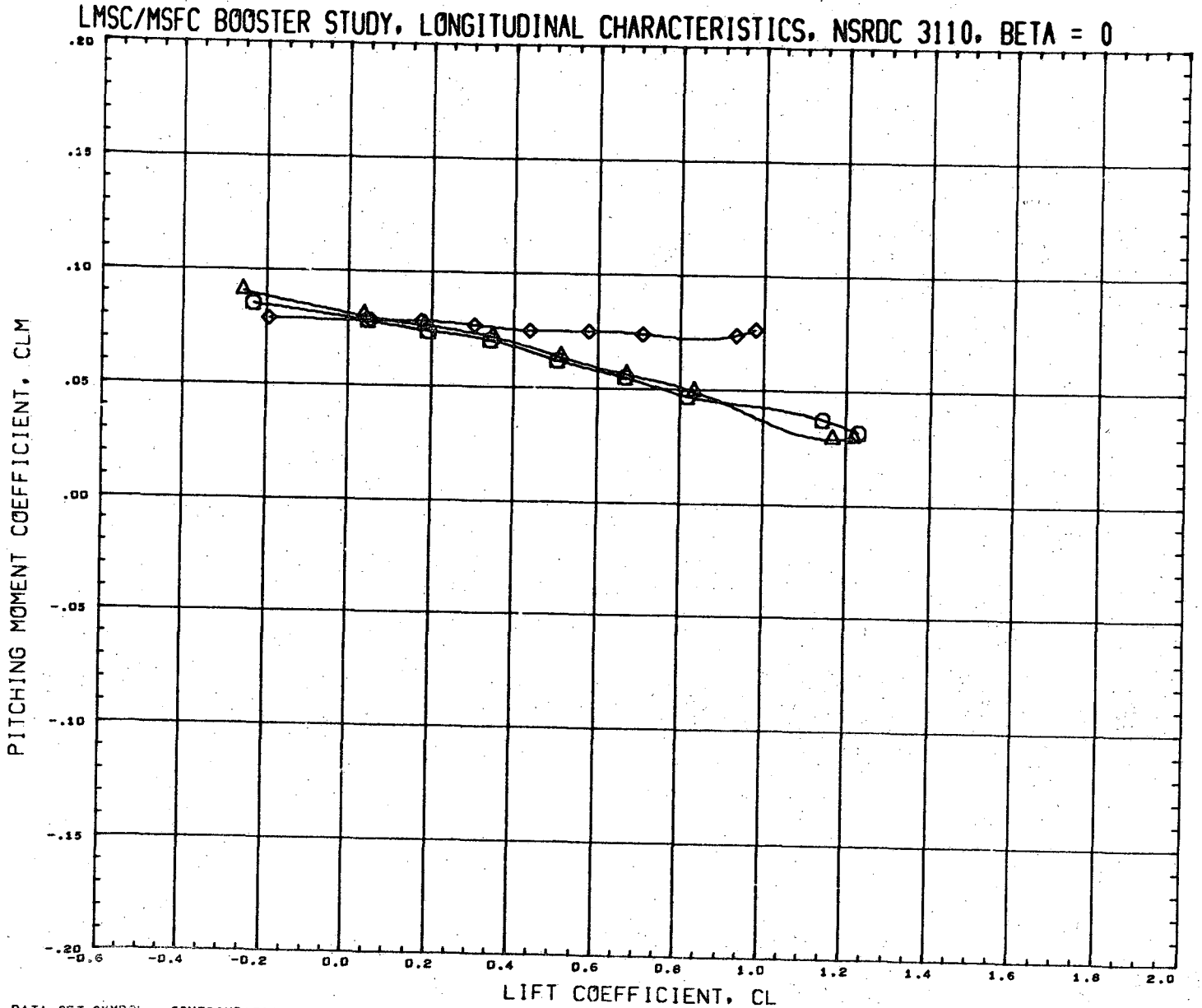
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2021) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000
(RN2213) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000
(RN2273) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

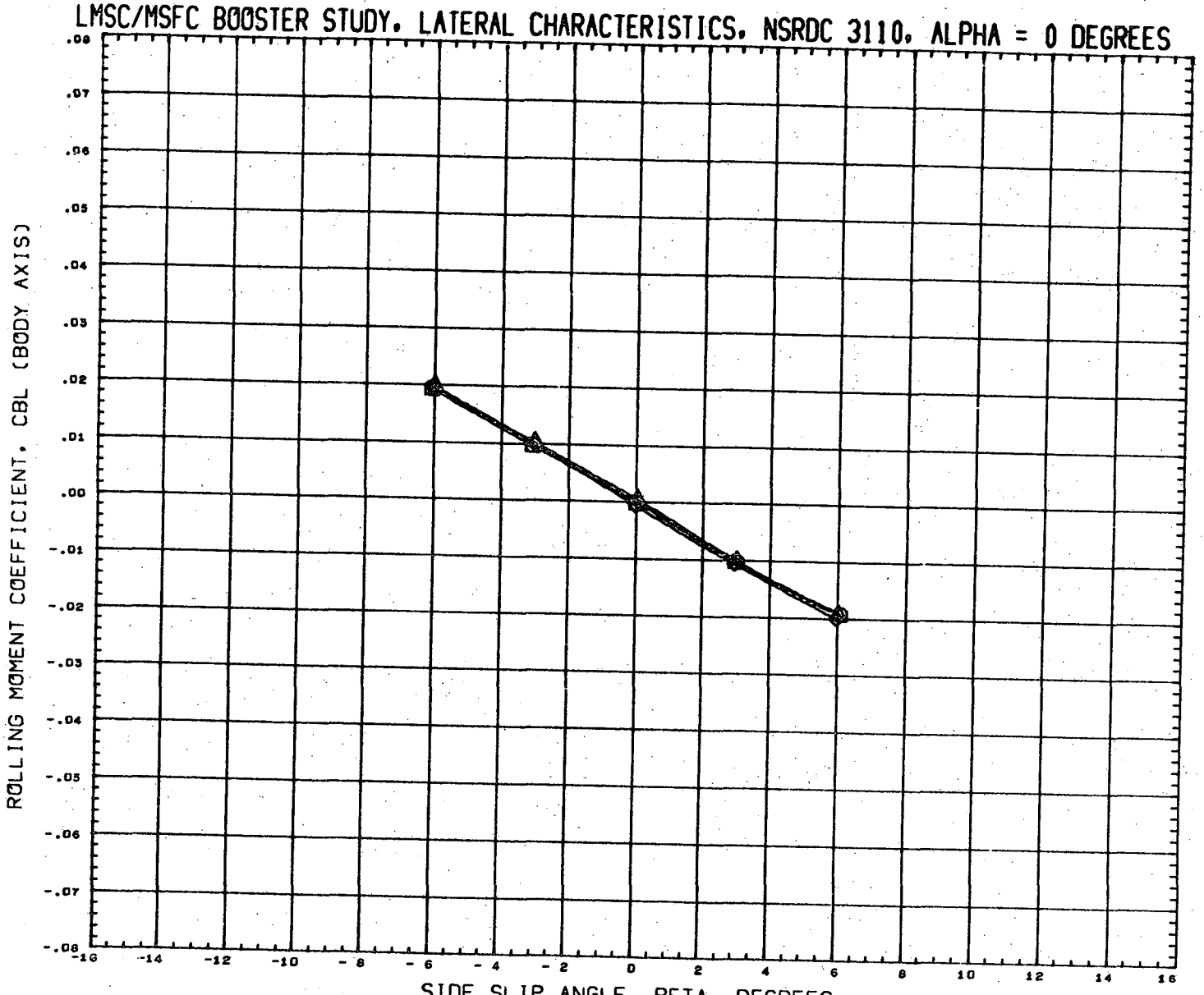


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2021)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2213)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2273)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

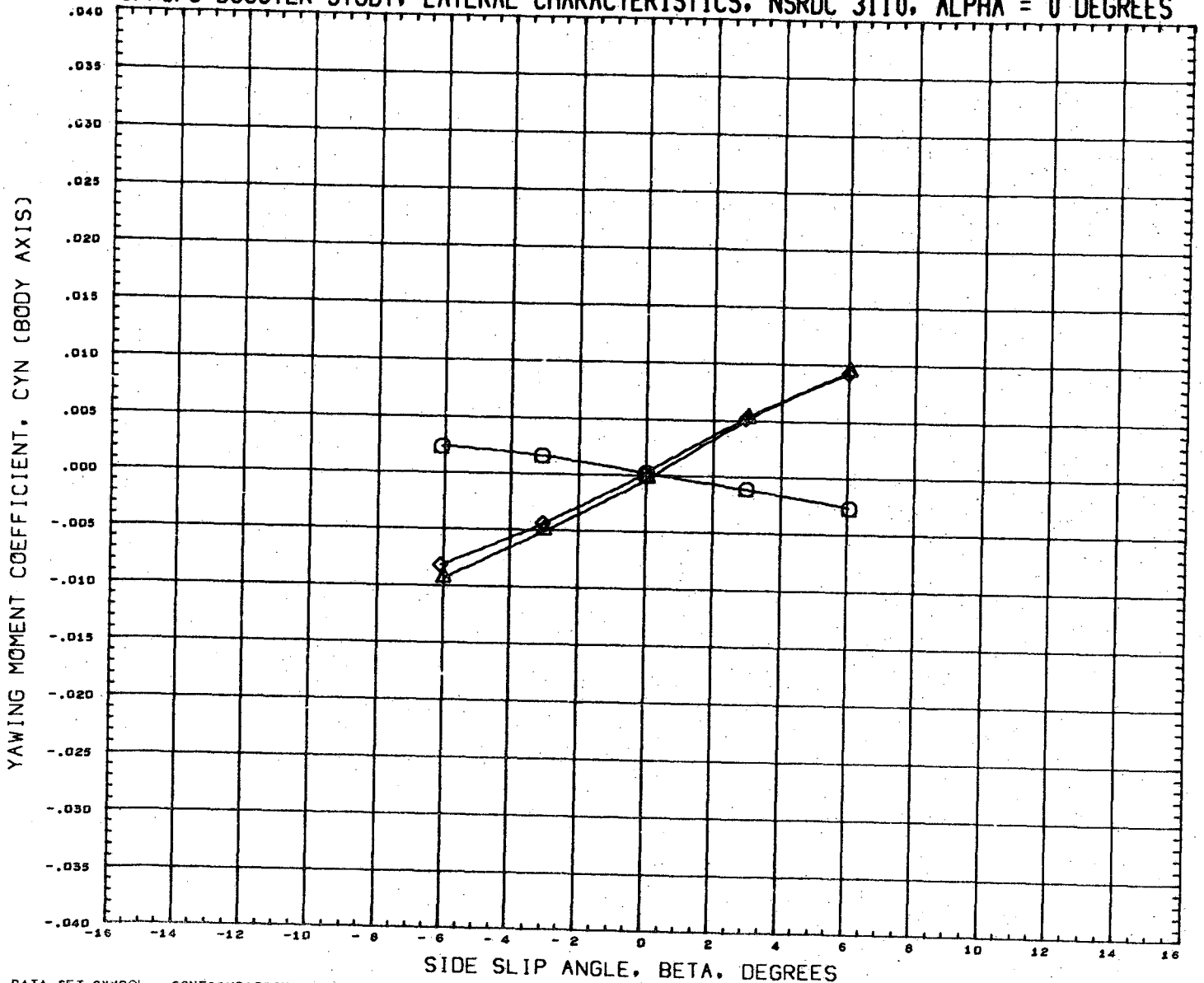


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2022)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000
(RN2214)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000
(RN2274)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØØSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



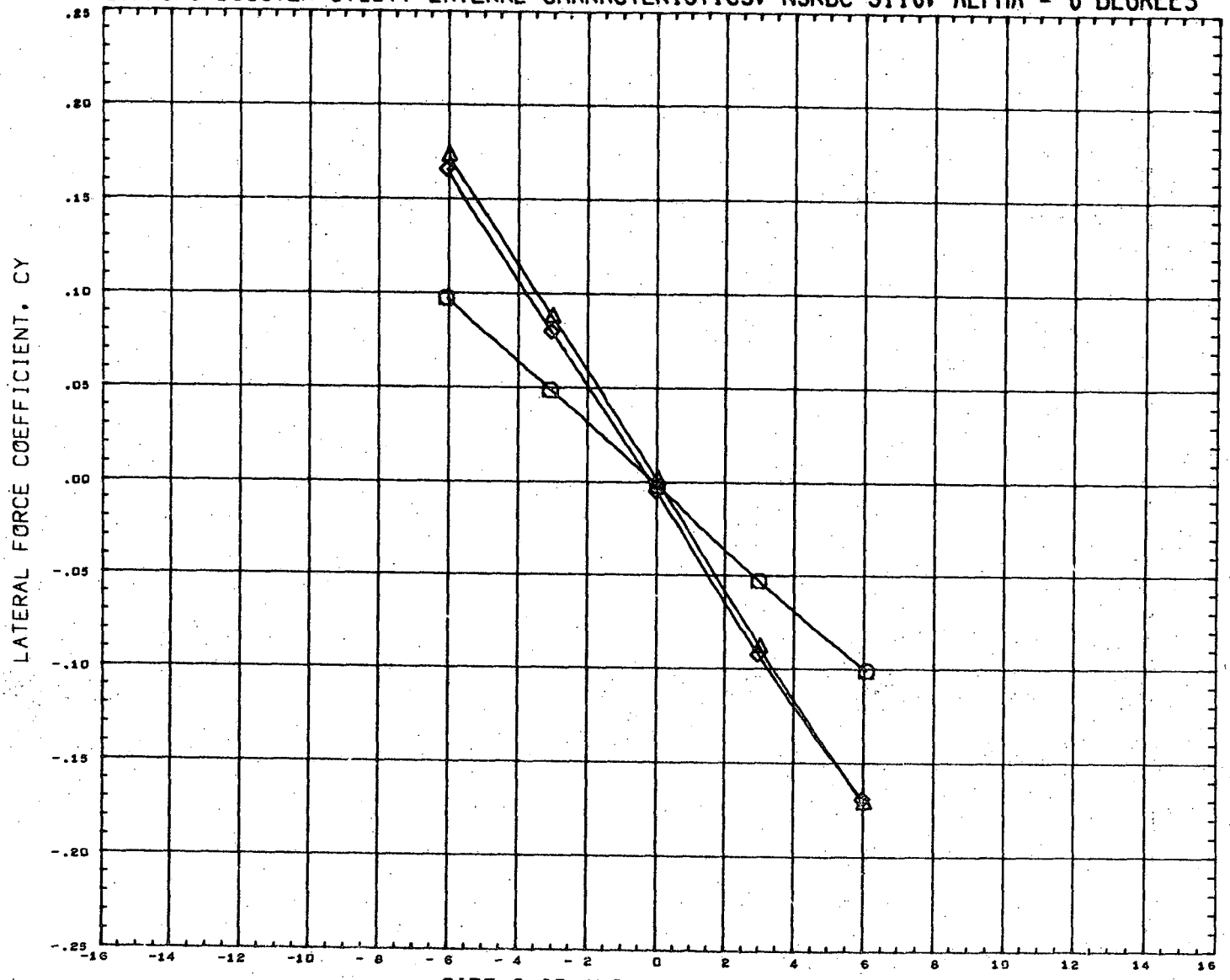
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2022) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2214) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2274) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

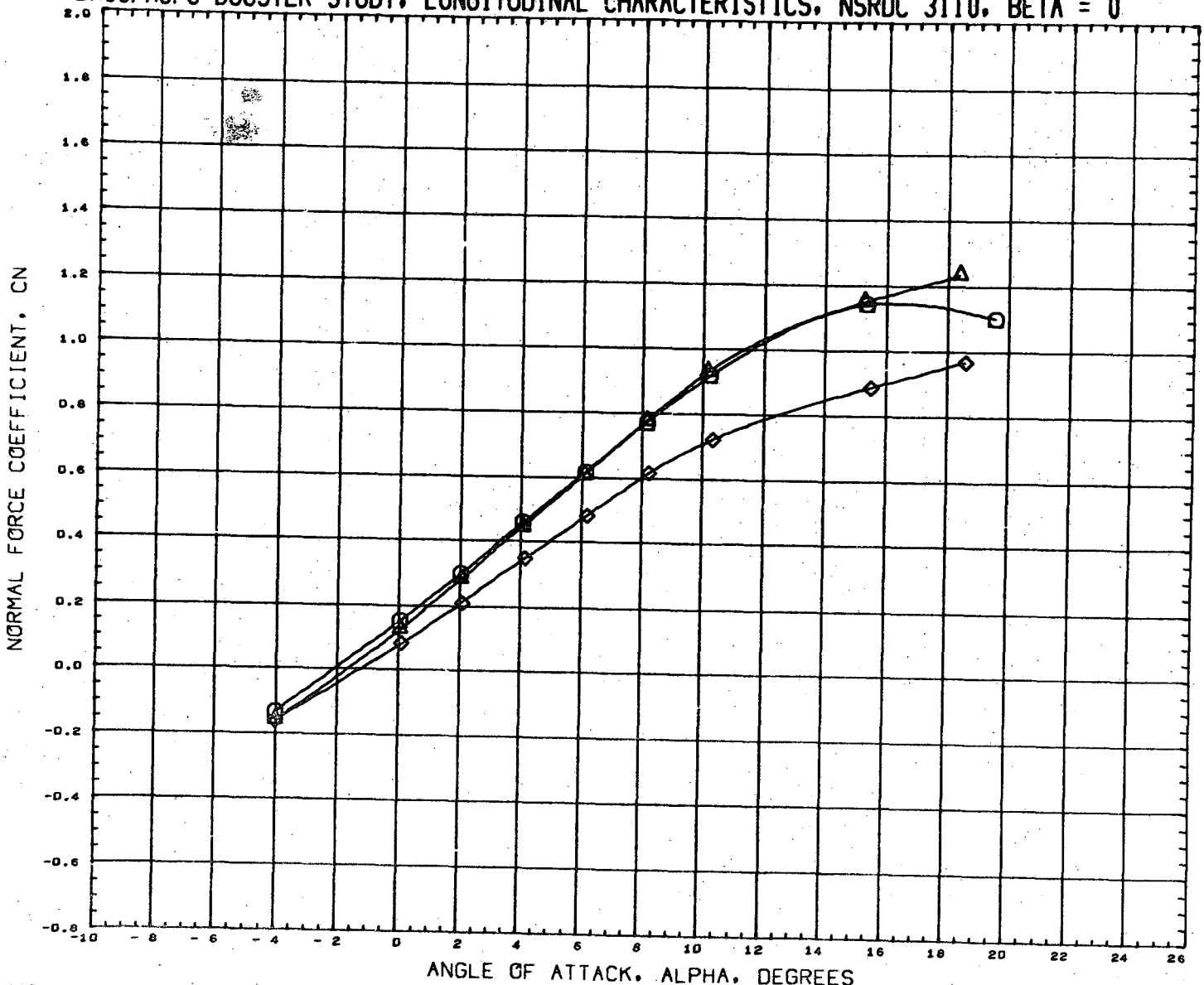
LMSC/MSFC BOOSTER STUDY. LATERAL CHARACTERISTICS. NSRDC 3110. ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2022)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000
(RN2214)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000
(RN2274)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



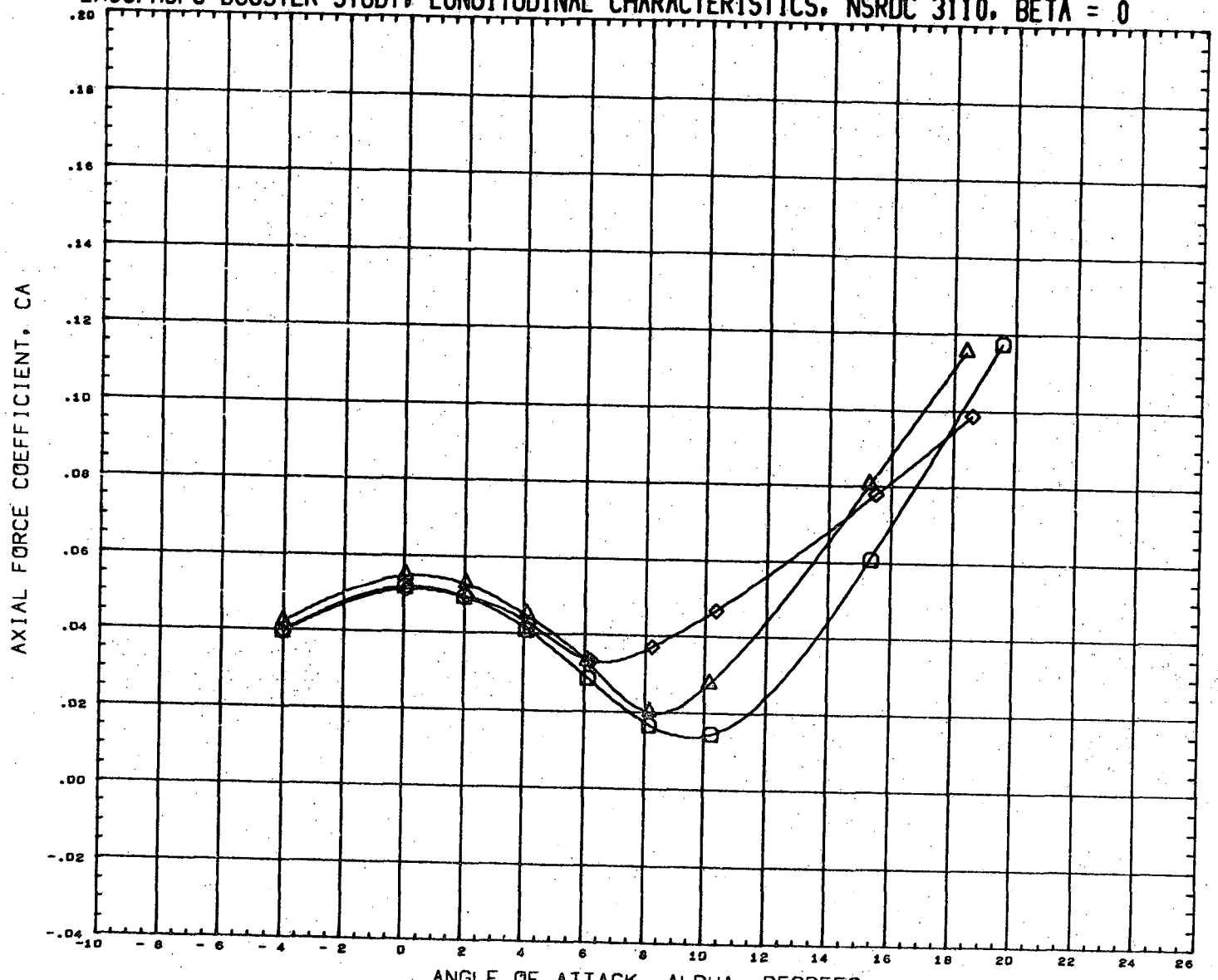
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2049) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2241) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2301) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

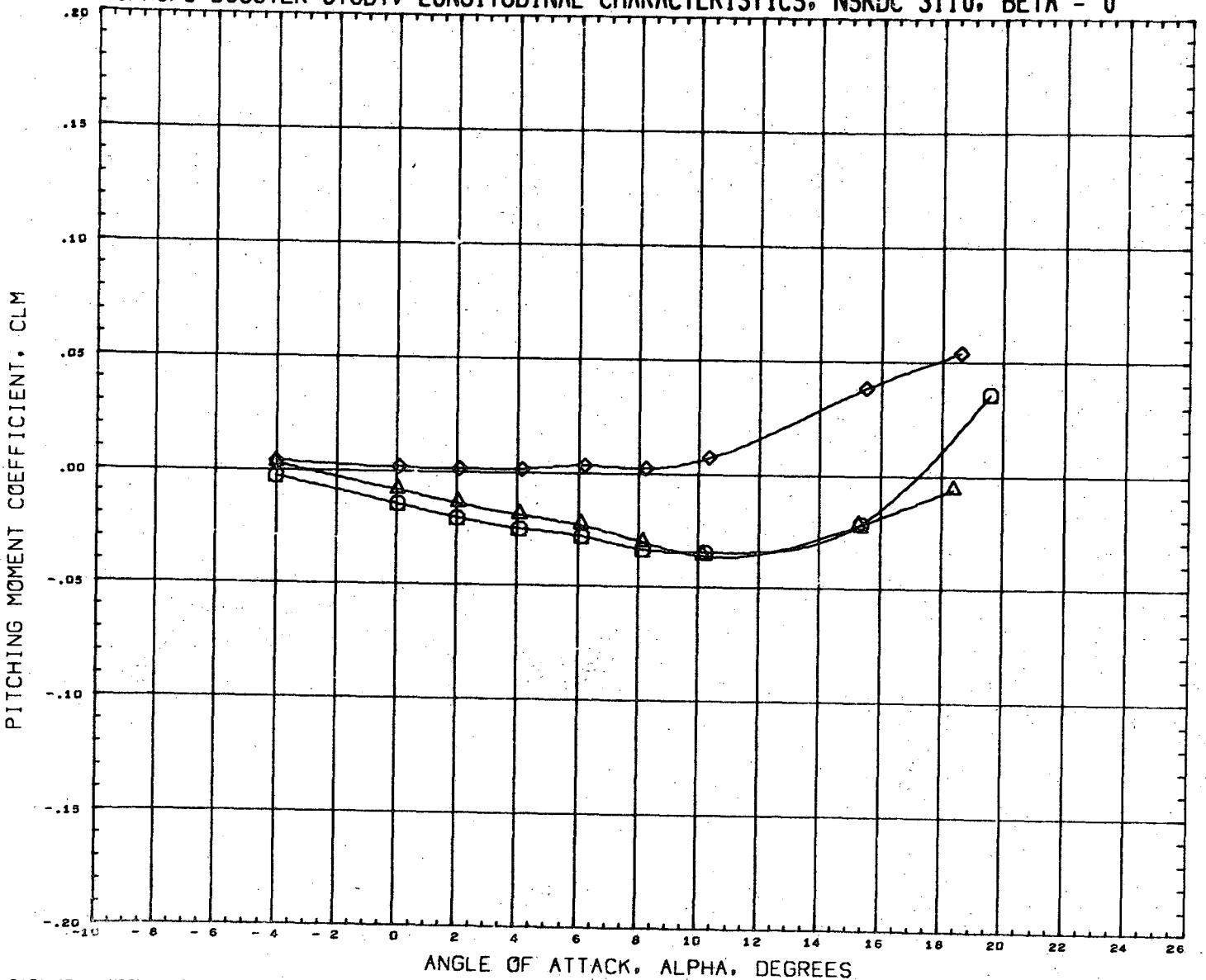


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2049) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000
(RN2241) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000
(RN2301) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



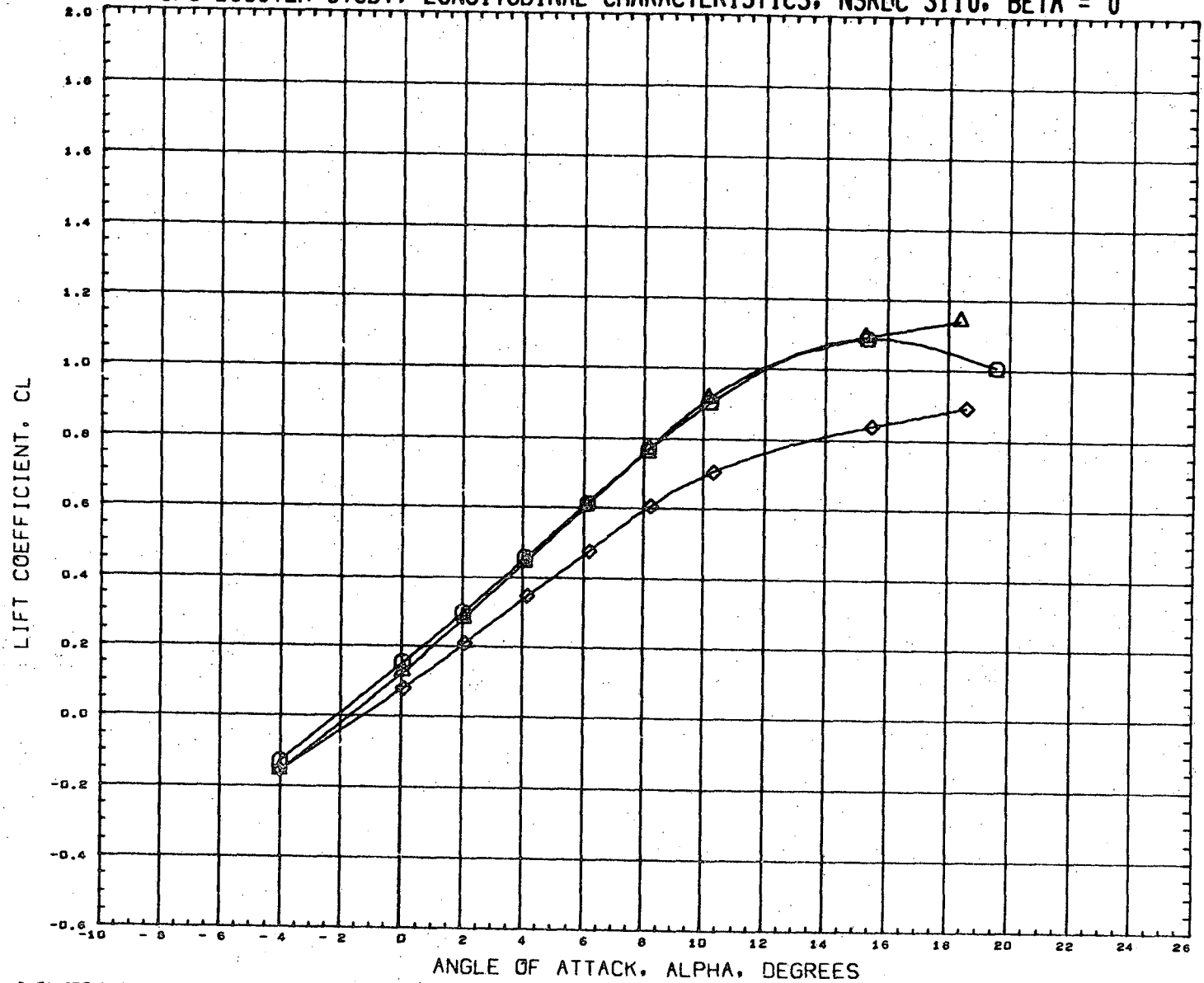
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2049)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2241)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2301)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

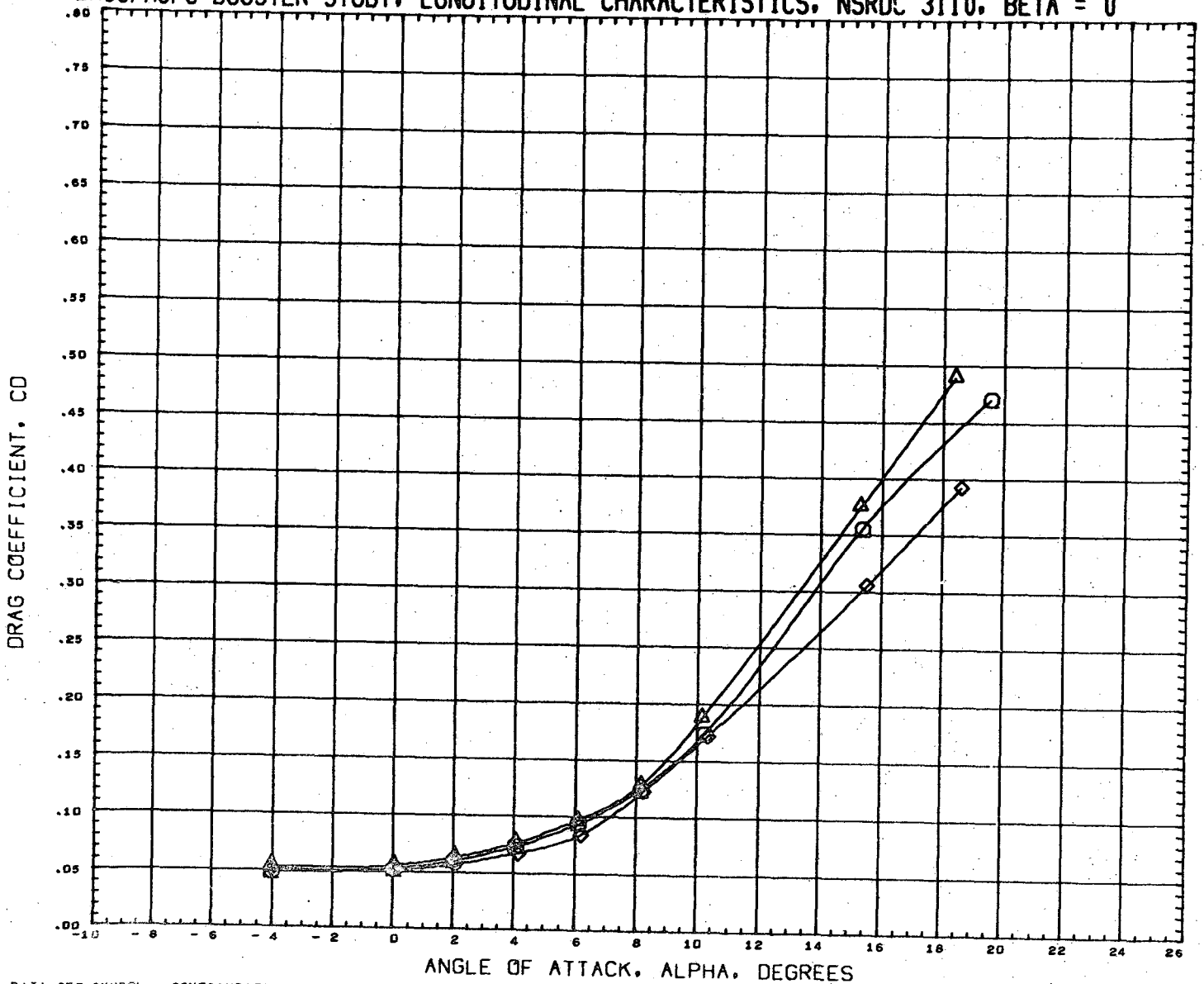
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2049)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000
(RN2241)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000
(RN2301)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2049)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2241)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2301)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

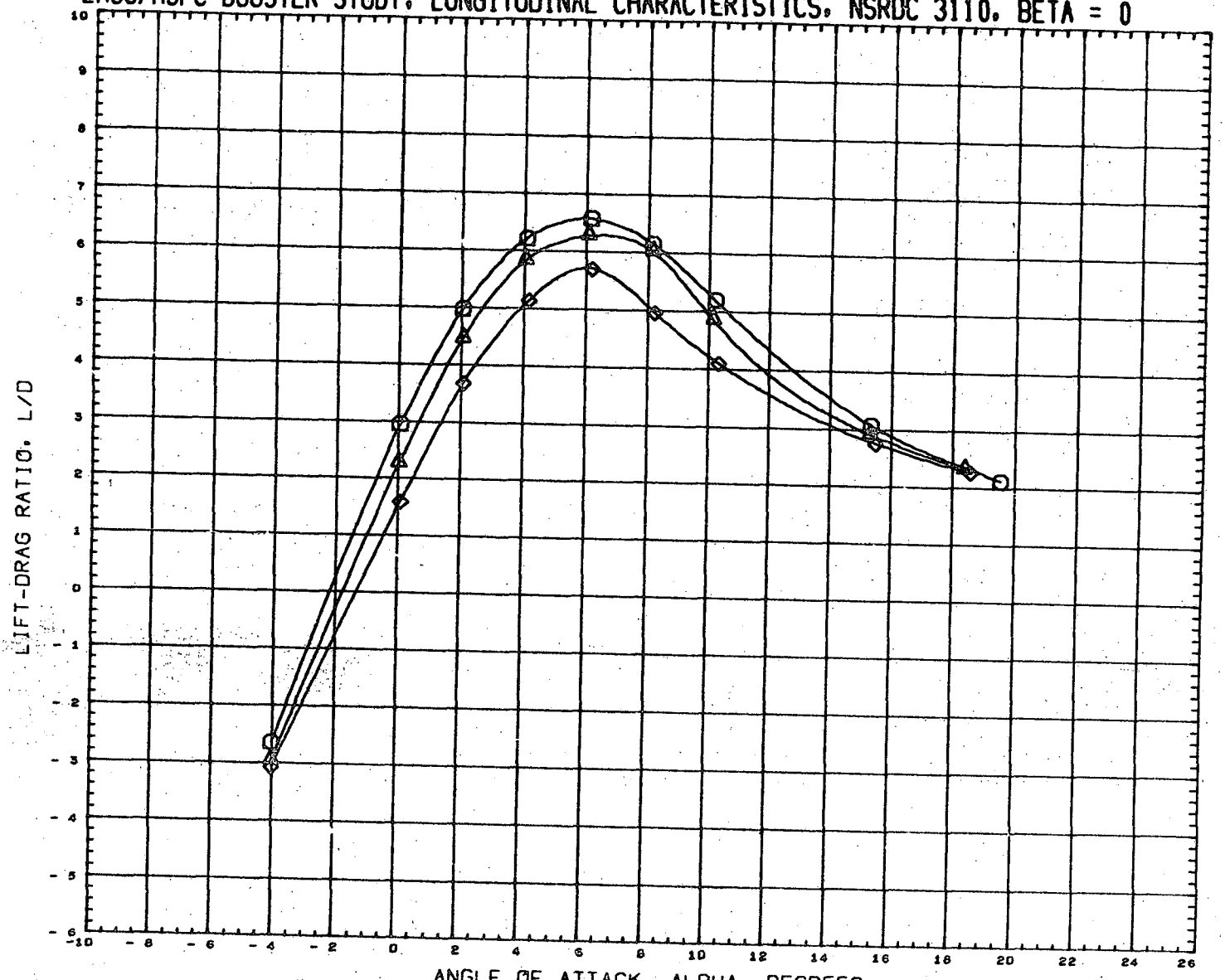
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



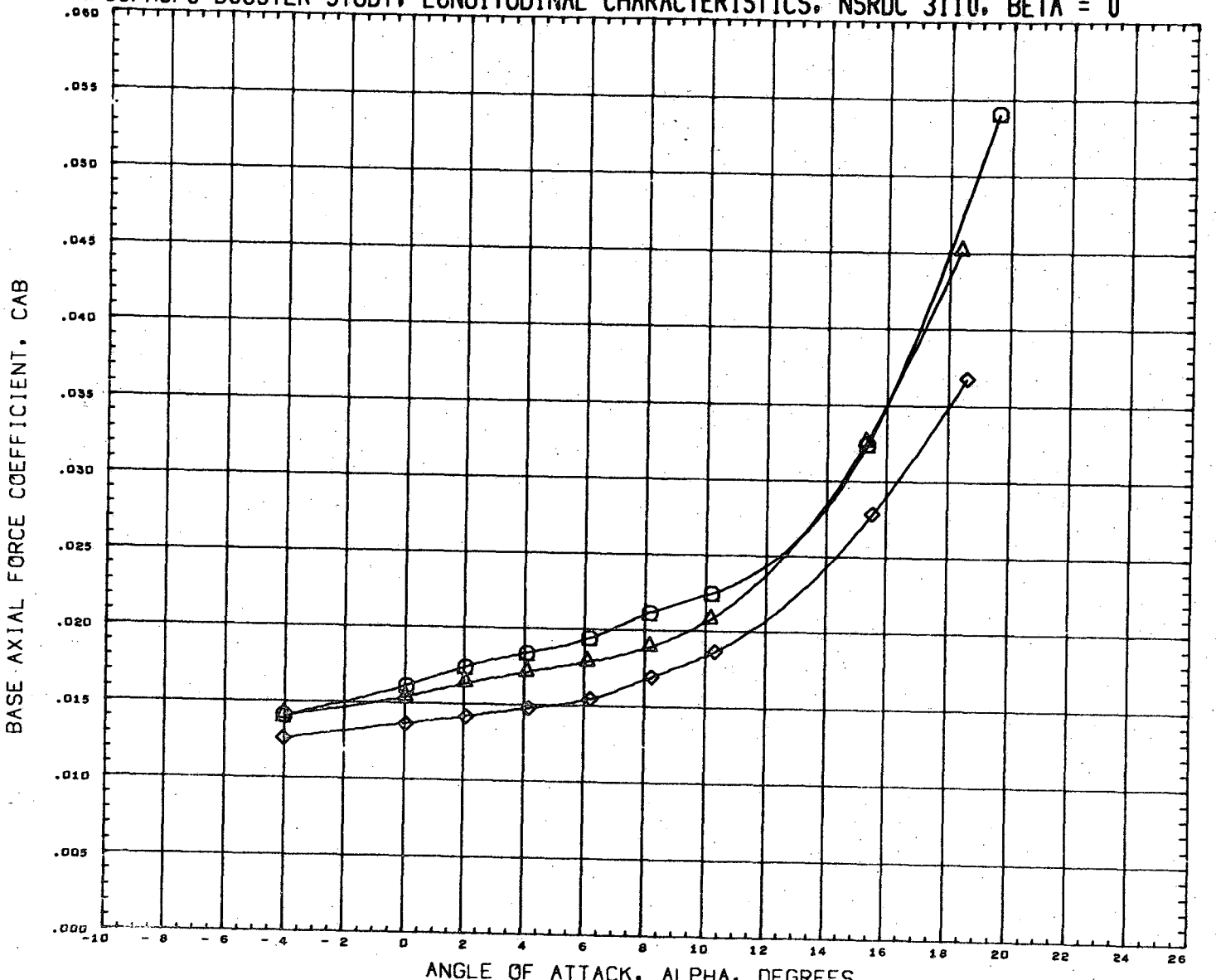
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2049)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2241)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2301)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



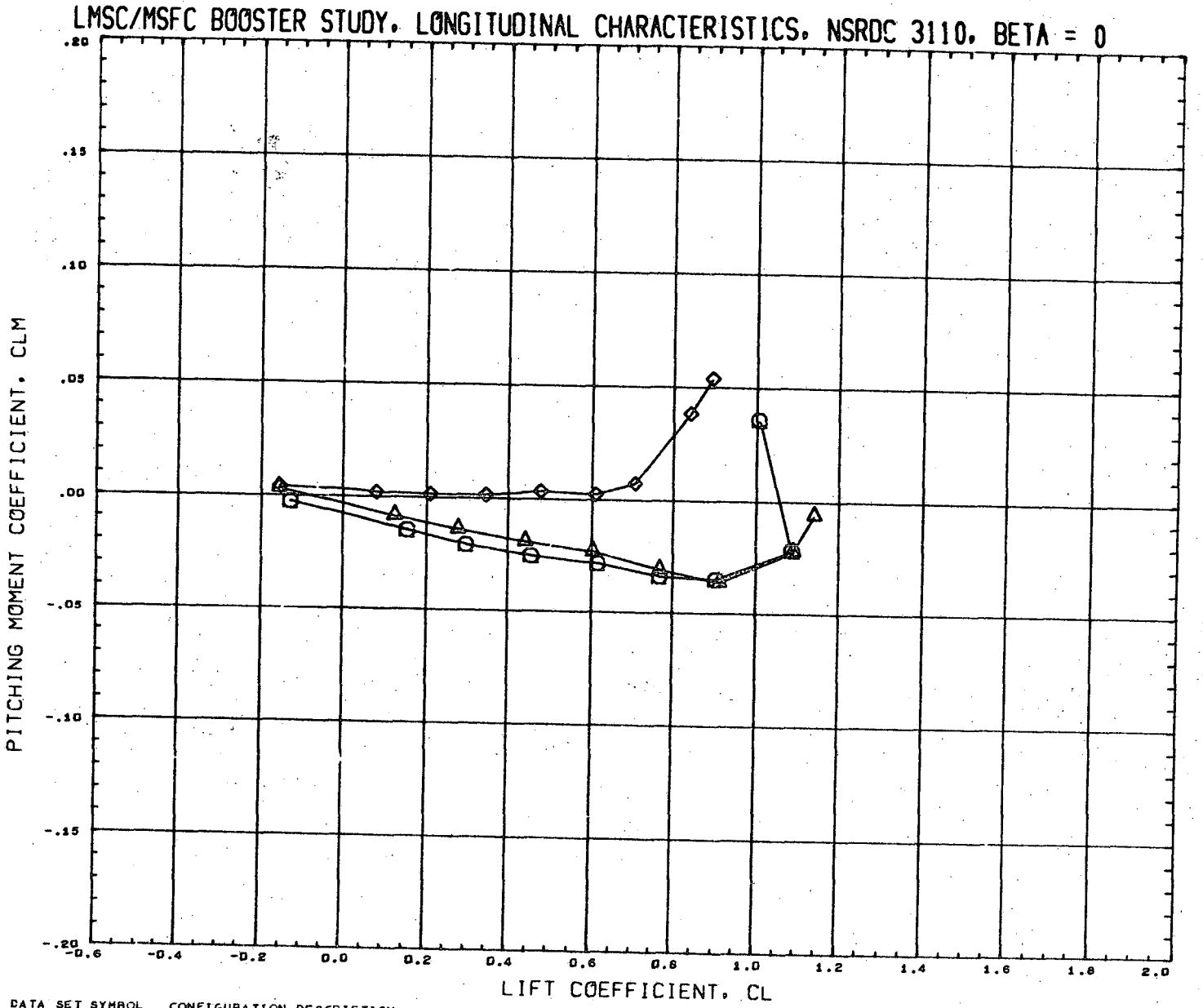
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2049)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2241)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2301)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

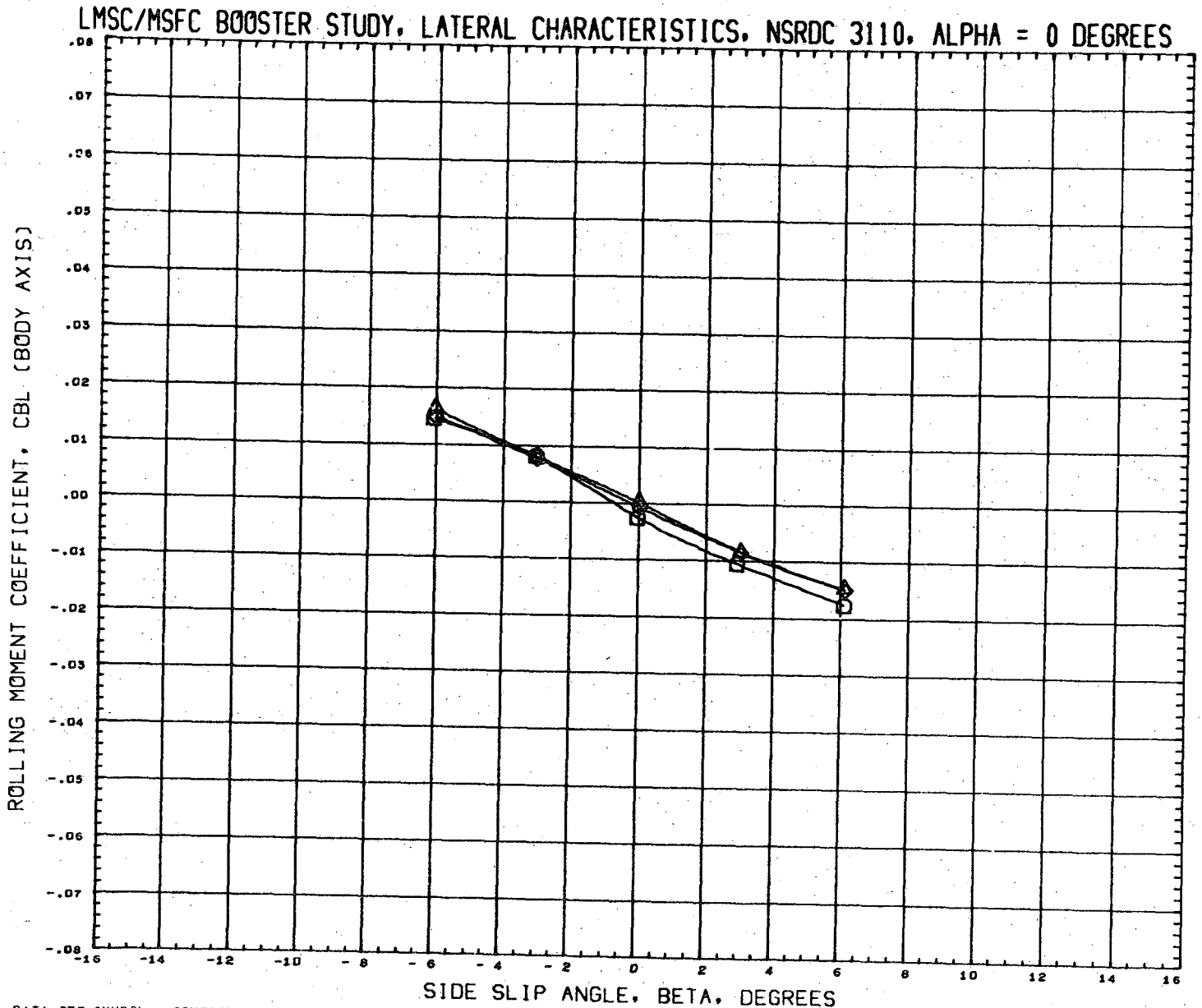


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2049) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2241) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2301) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2050)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2242)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2302)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

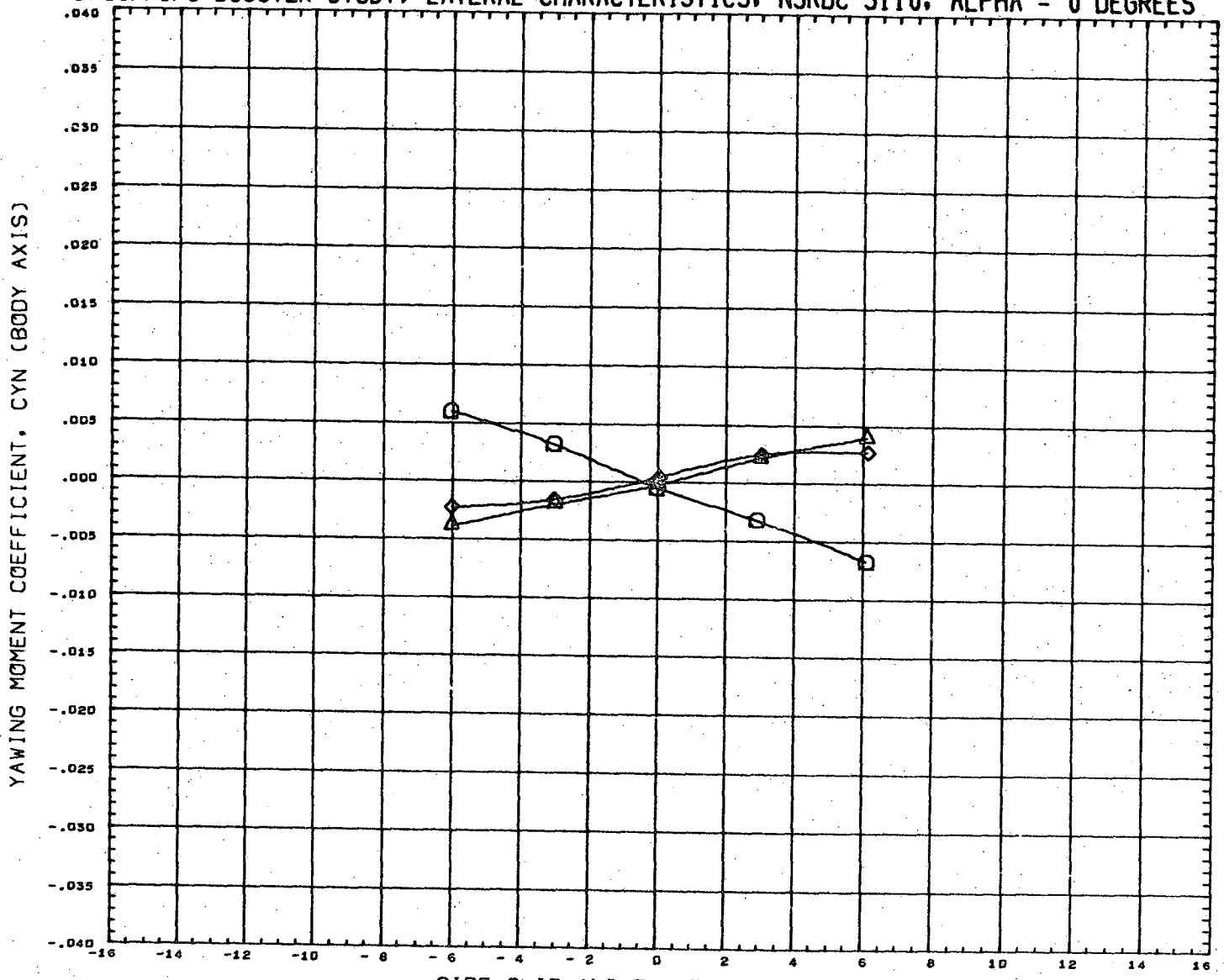
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

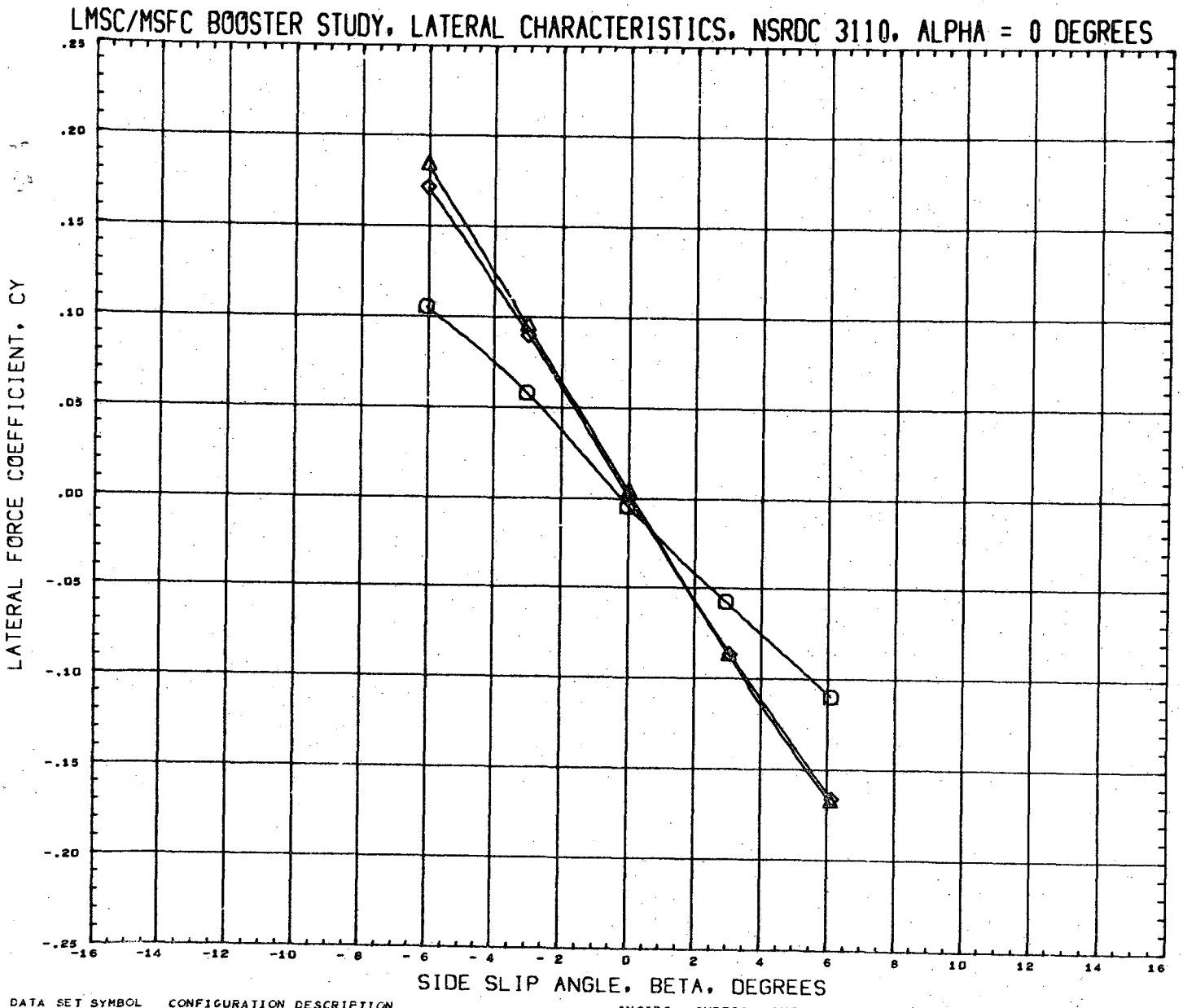
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2050) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000
(RN2242) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000
(RN2302) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

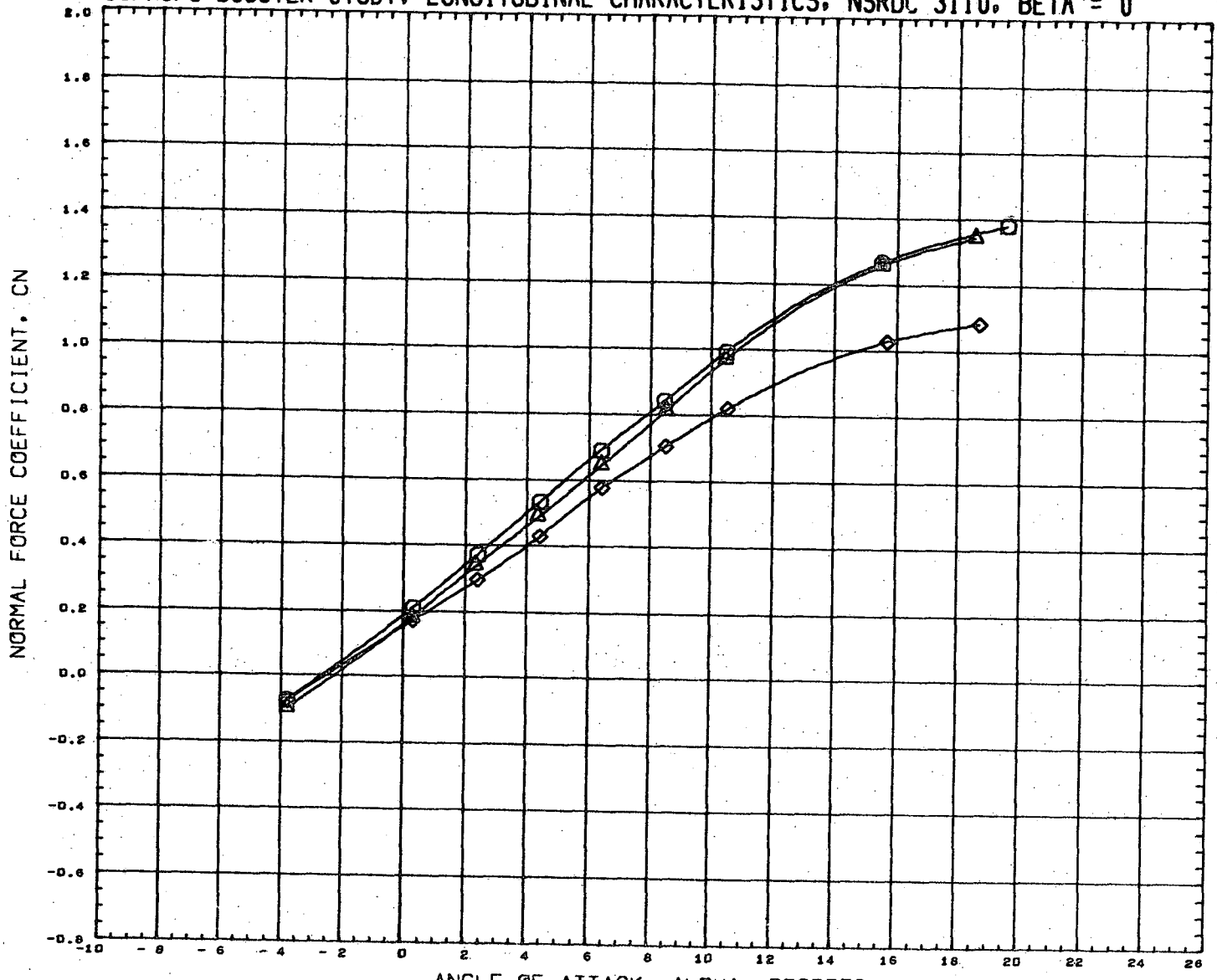


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2059)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000
(RN2242)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000
(RN2302)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

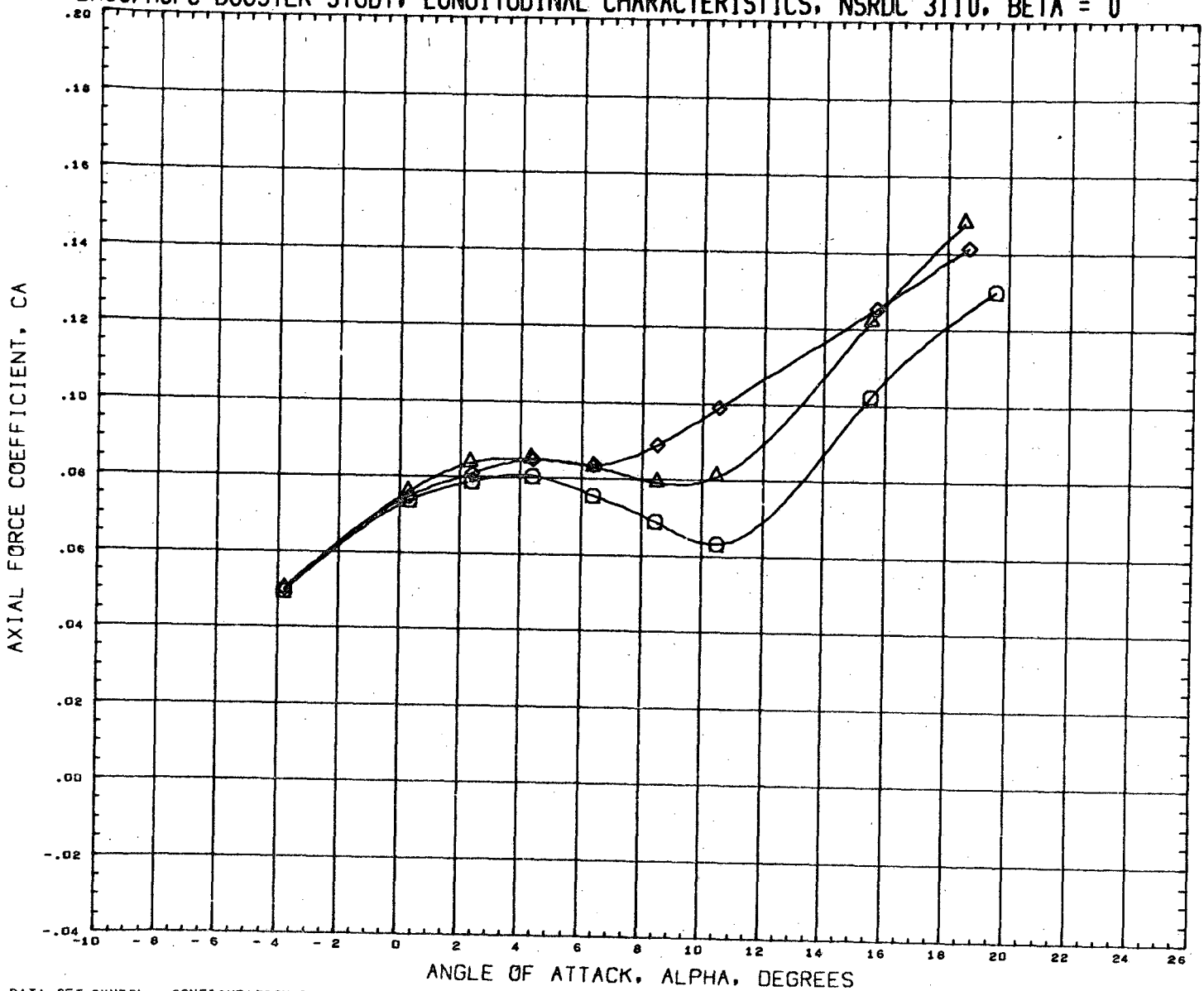


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2053) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000
(RN2245) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000
(RN2305) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



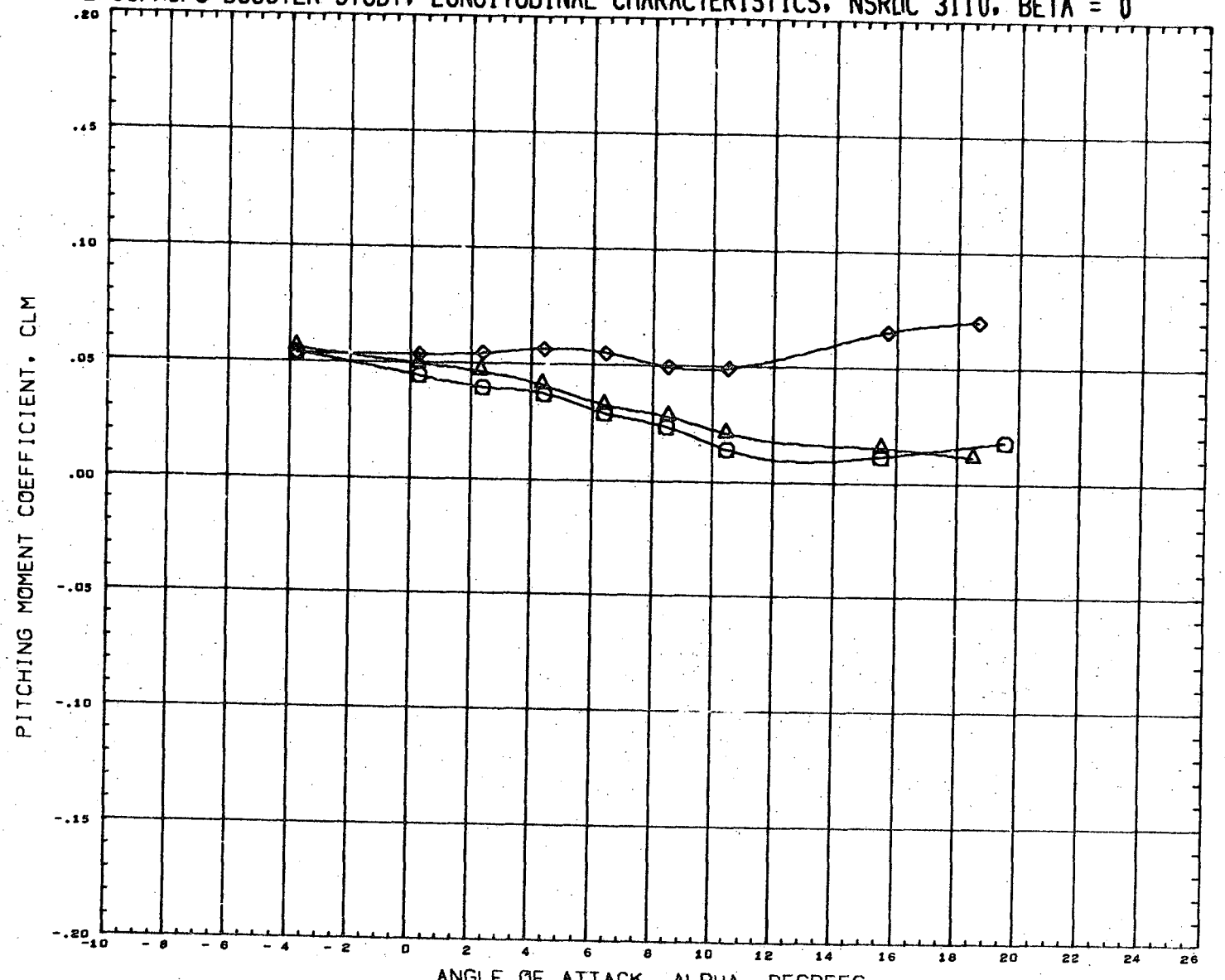
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS
(RN2053)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000
(RN2245)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000
(RN2305)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



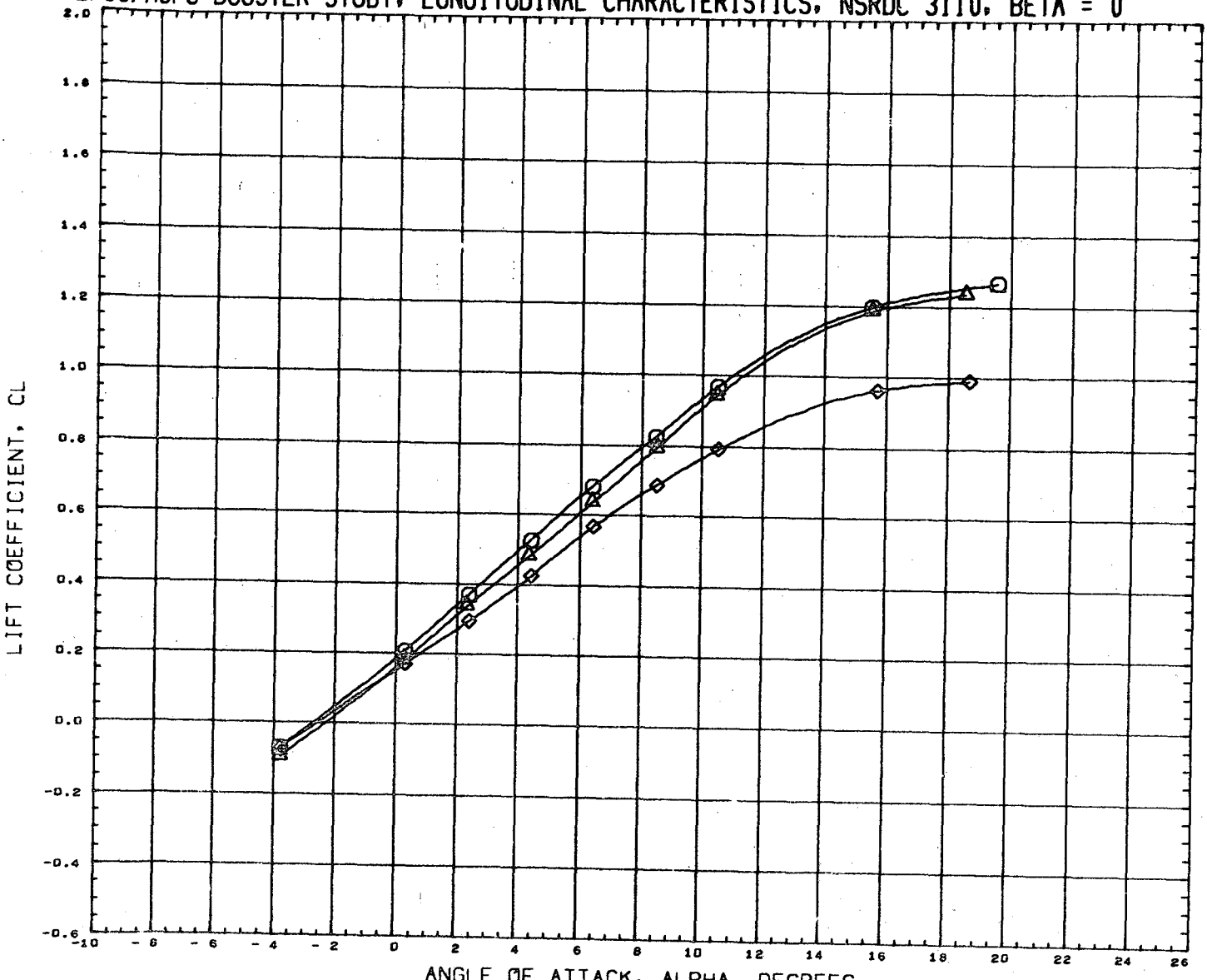
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2053)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2245)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2305)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.361

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2053)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2245)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2305)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

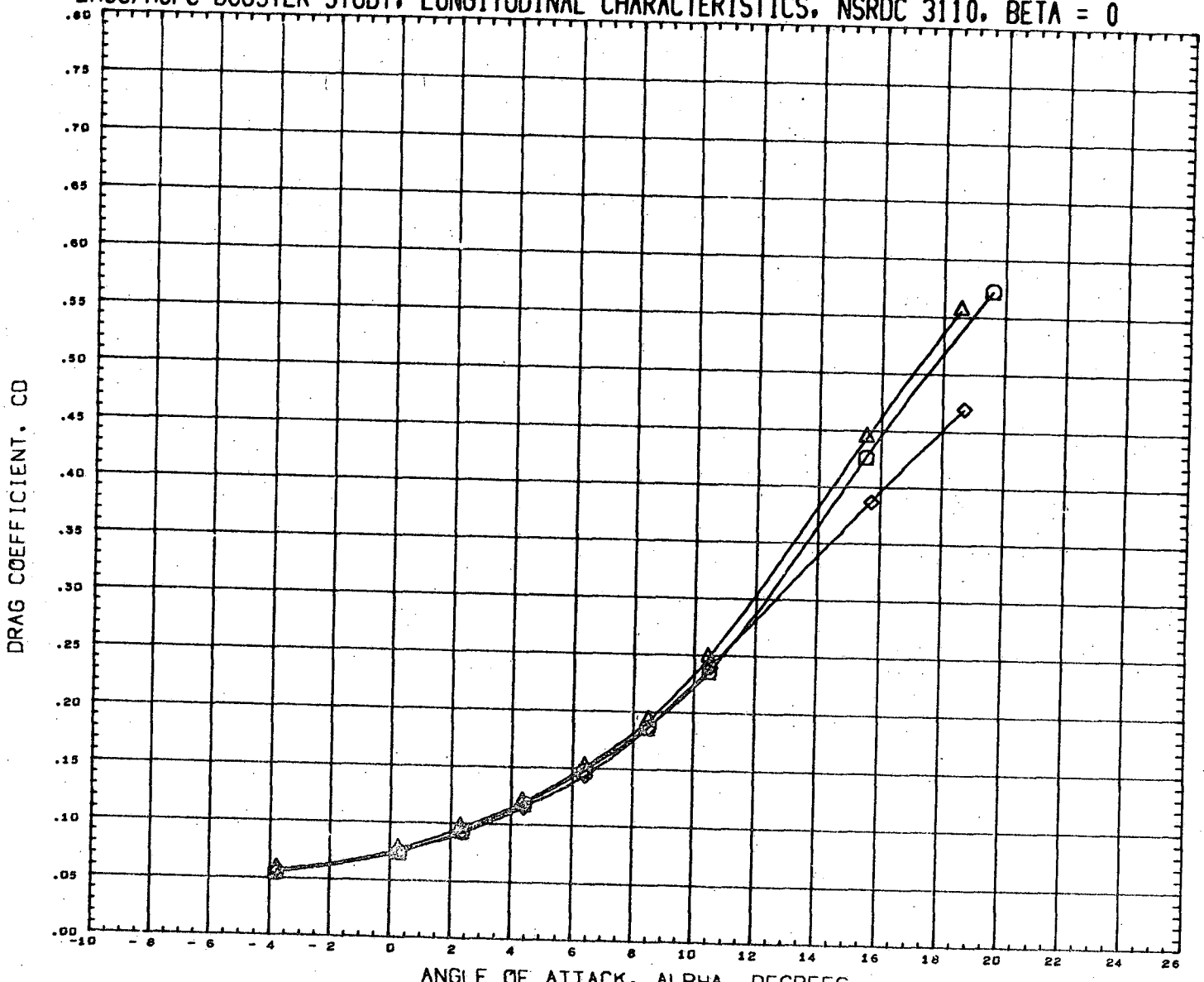
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

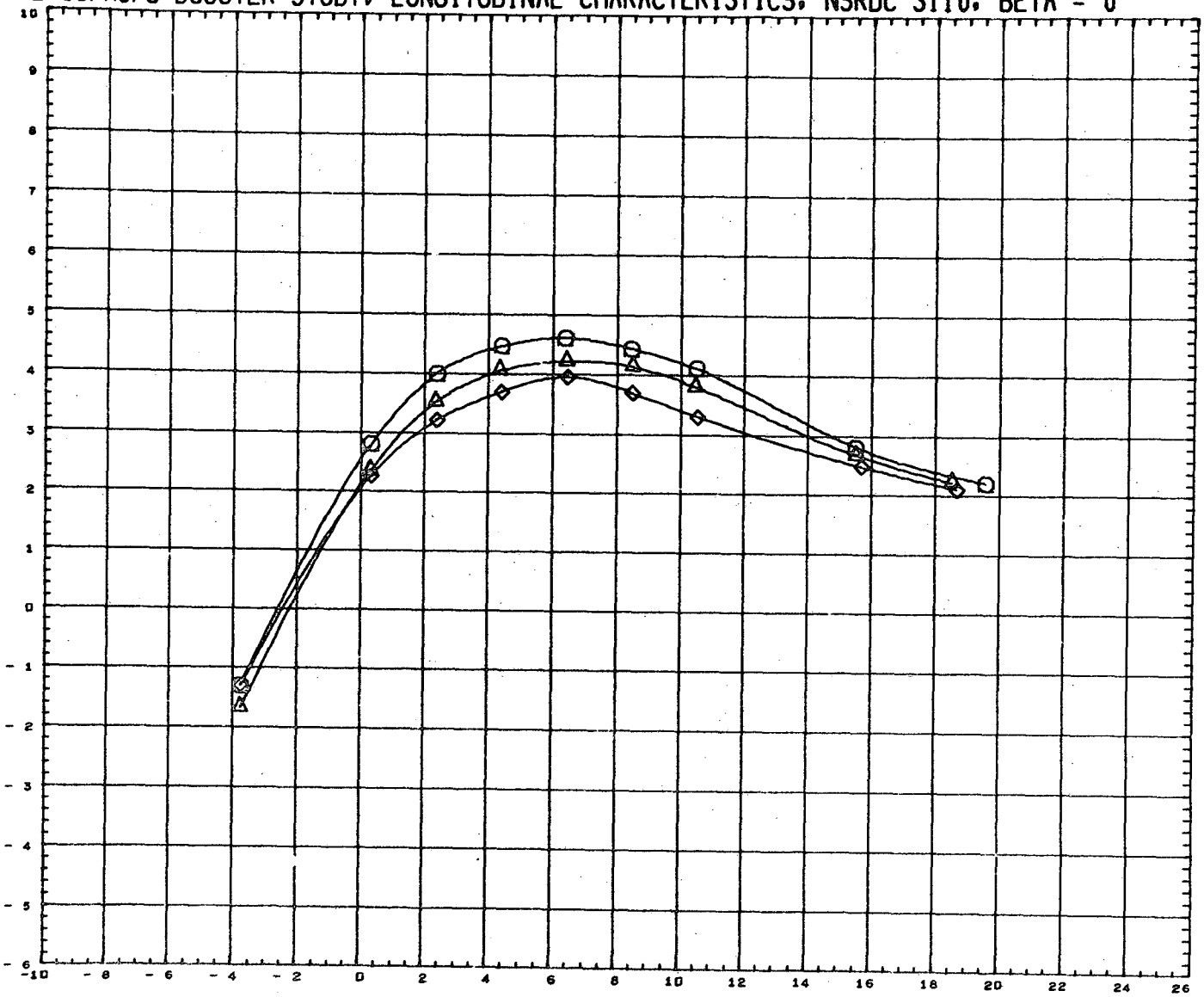


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2053) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000
(RN2245) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000
(RN2305) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

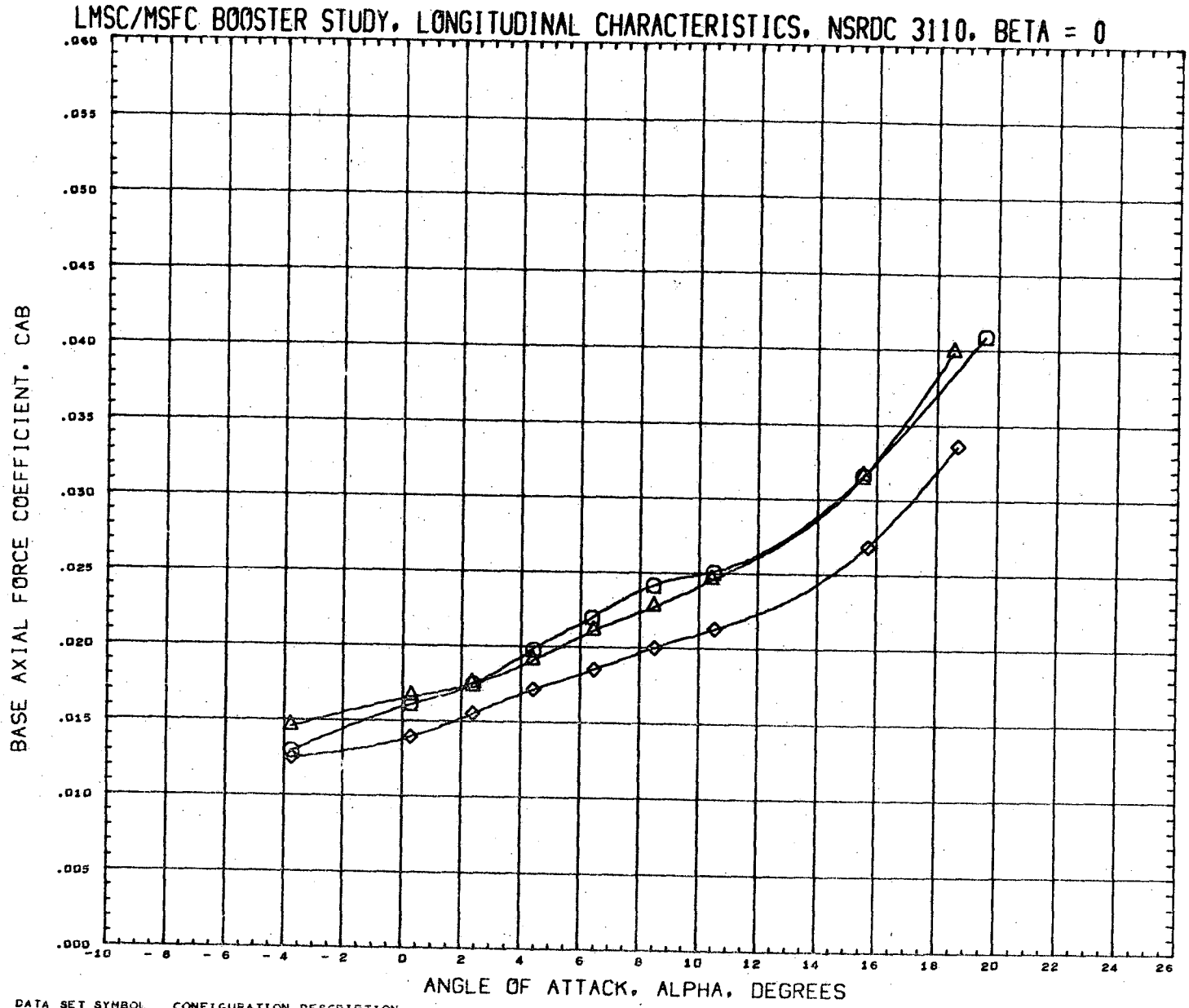
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2053)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000
(RN2245)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000
(RN2305)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



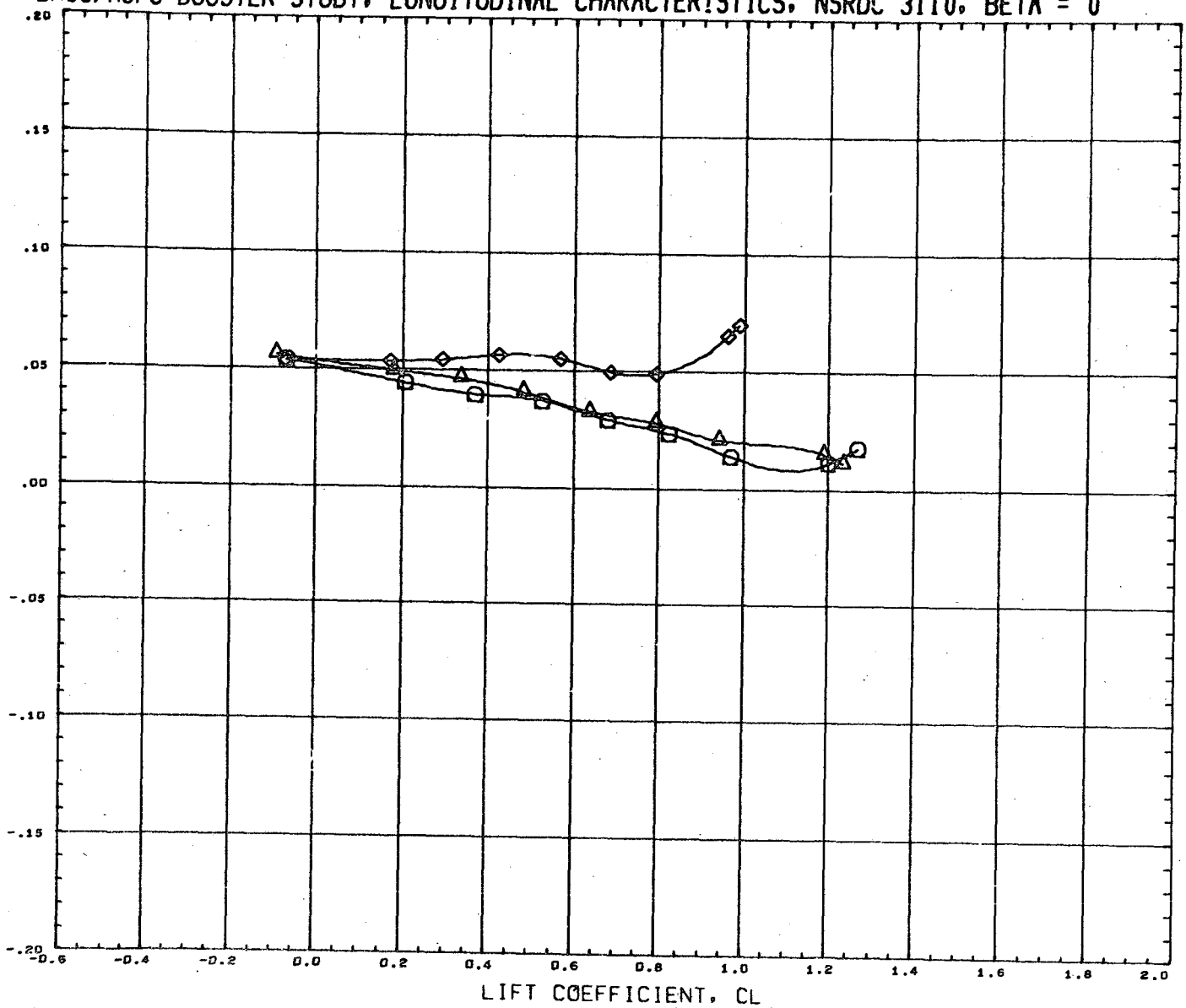
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2053) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2245) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2305) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2053)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2245)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2305)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

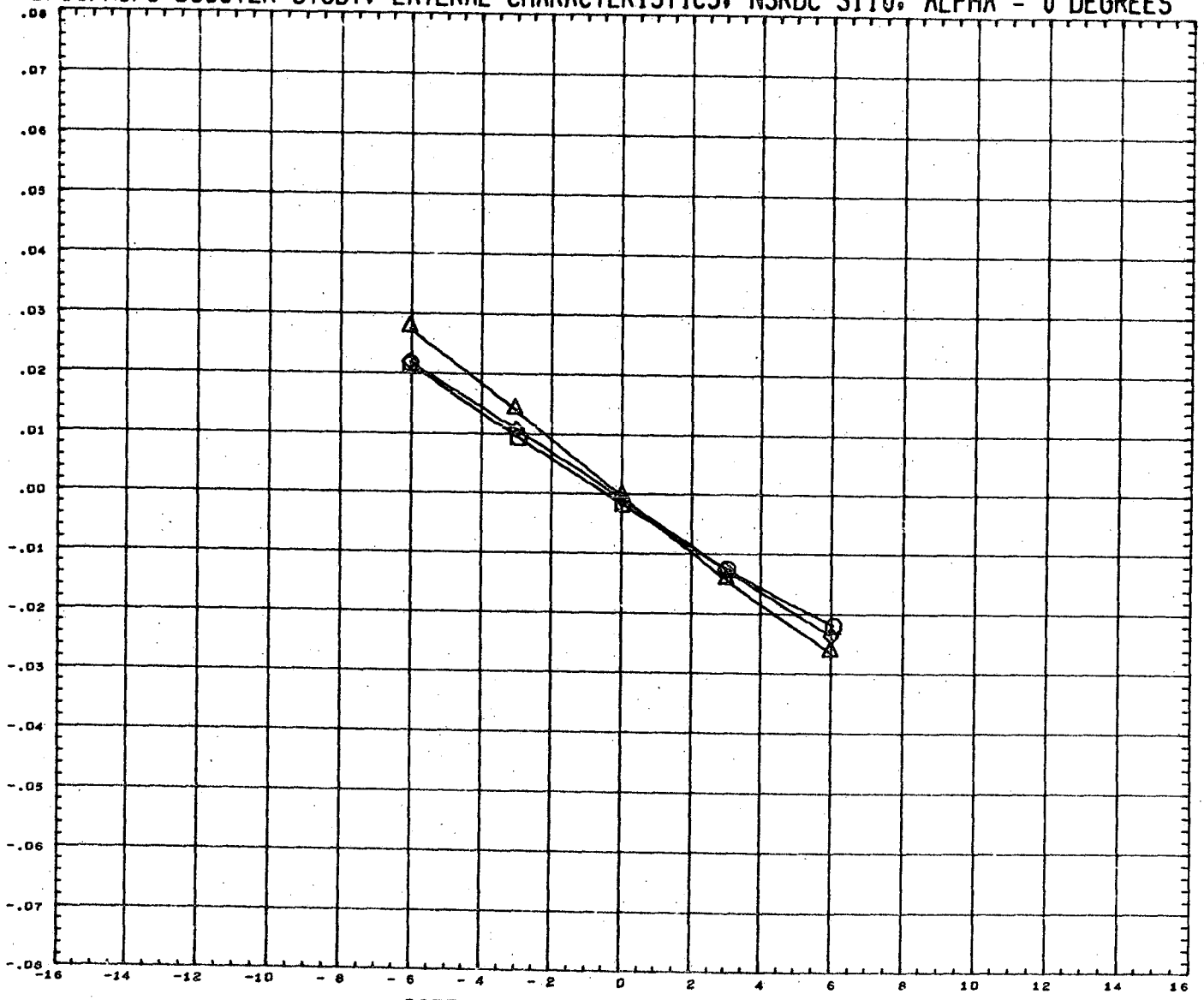
INCIDC	CNDFOS	INCIDW	WNGPOS
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



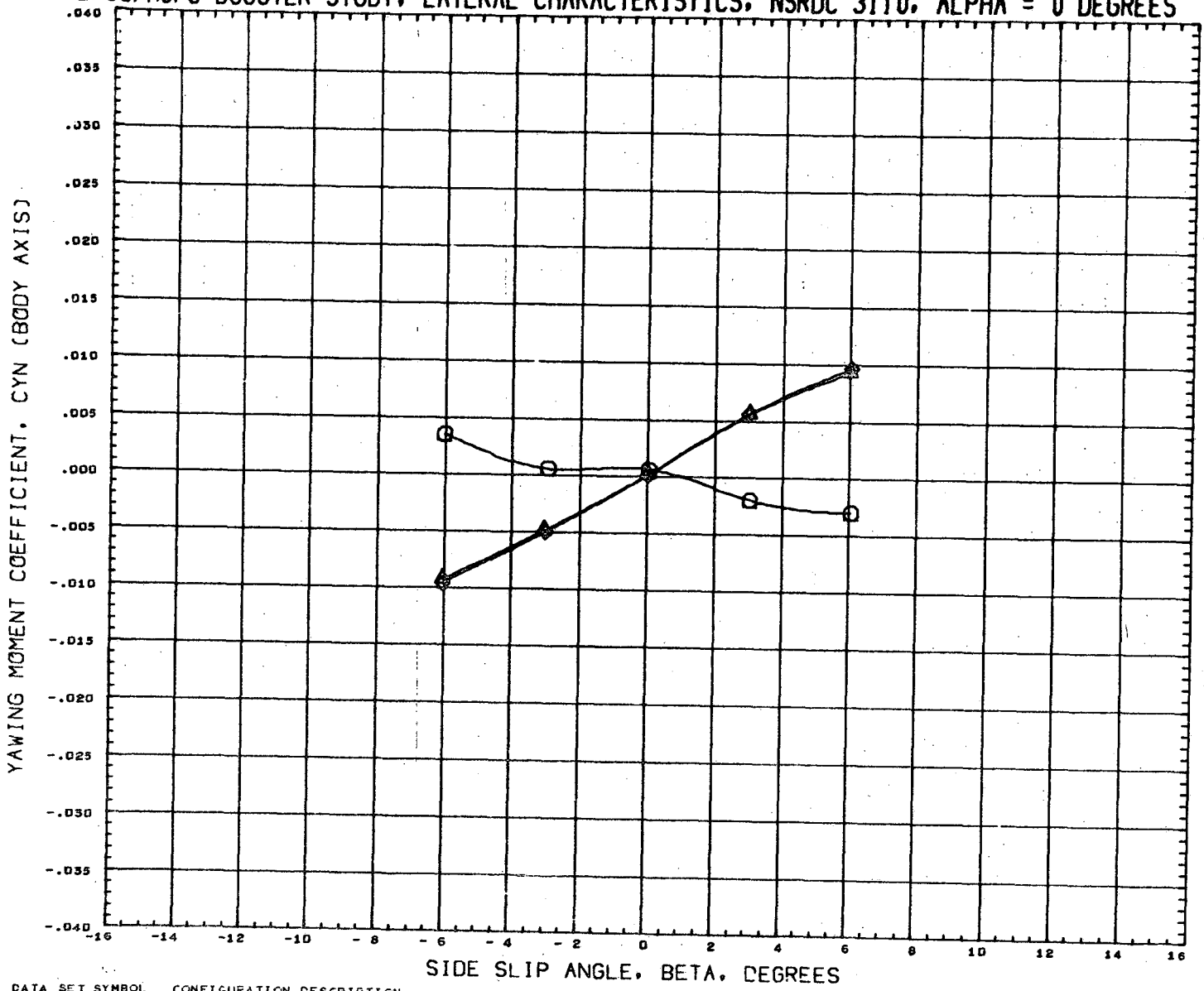
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2054) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2246) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2306) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

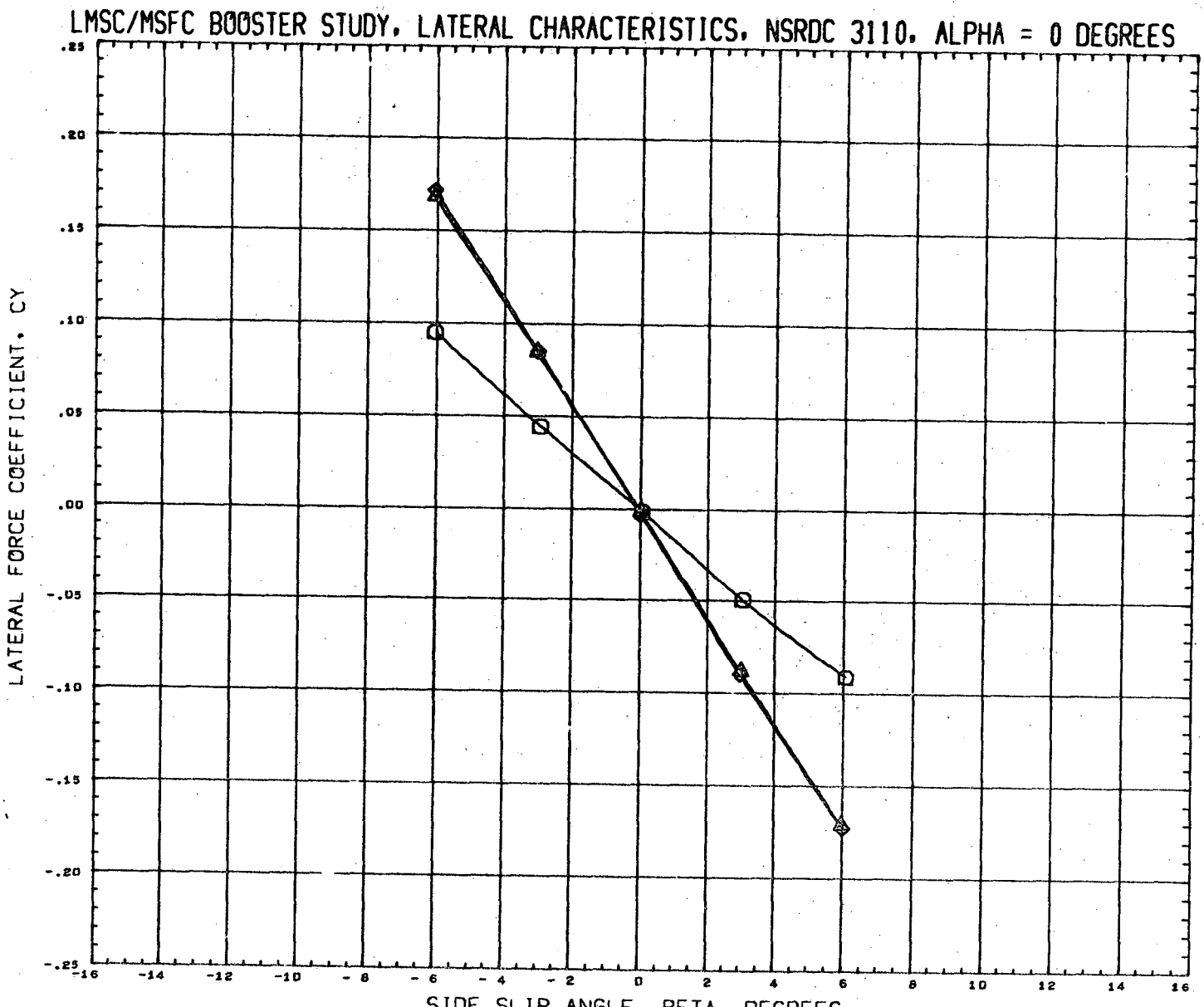
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2054)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000
(RN2246)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000
(RN2306)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

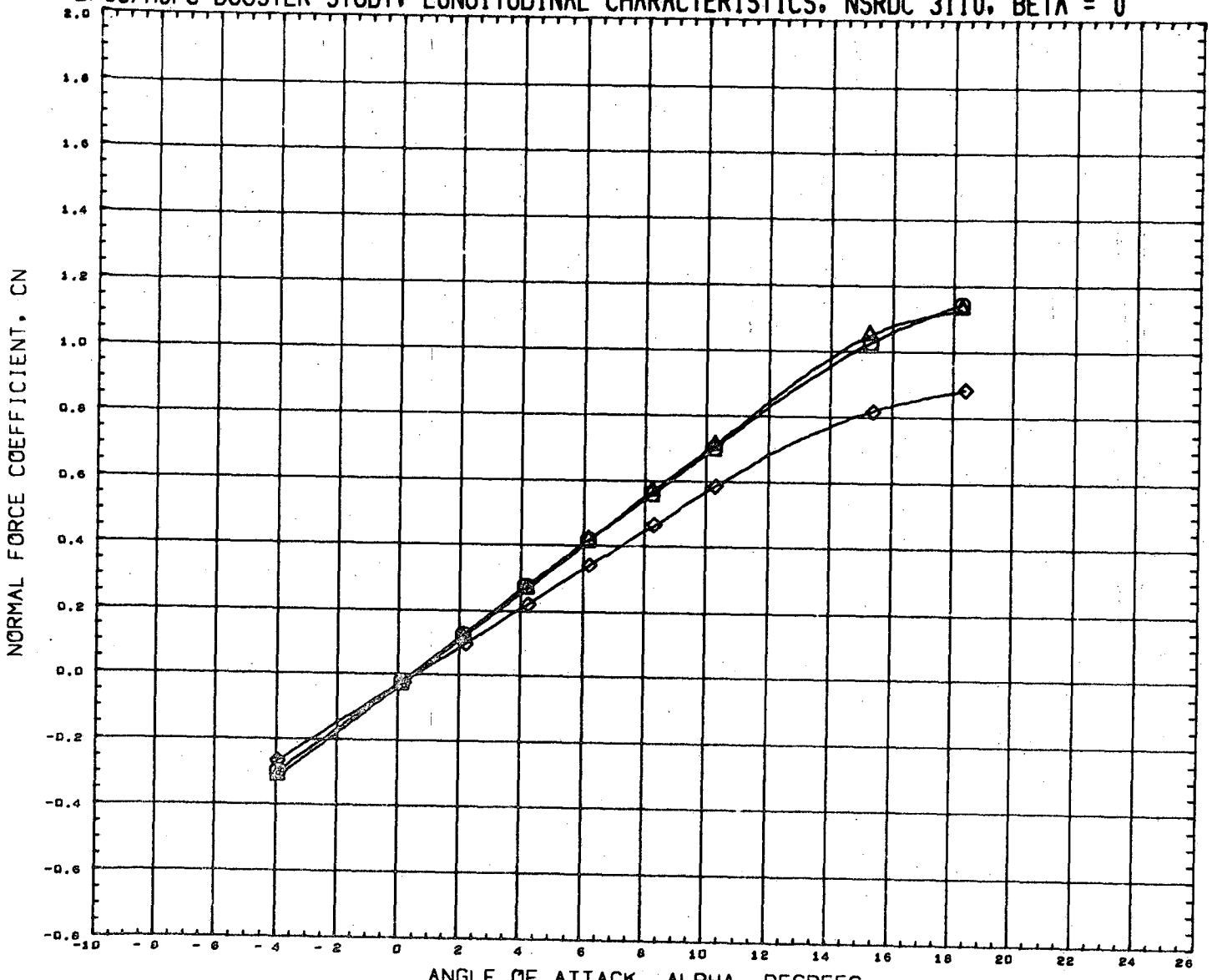


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2054)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000
(RN2246)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000
(RN2306)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



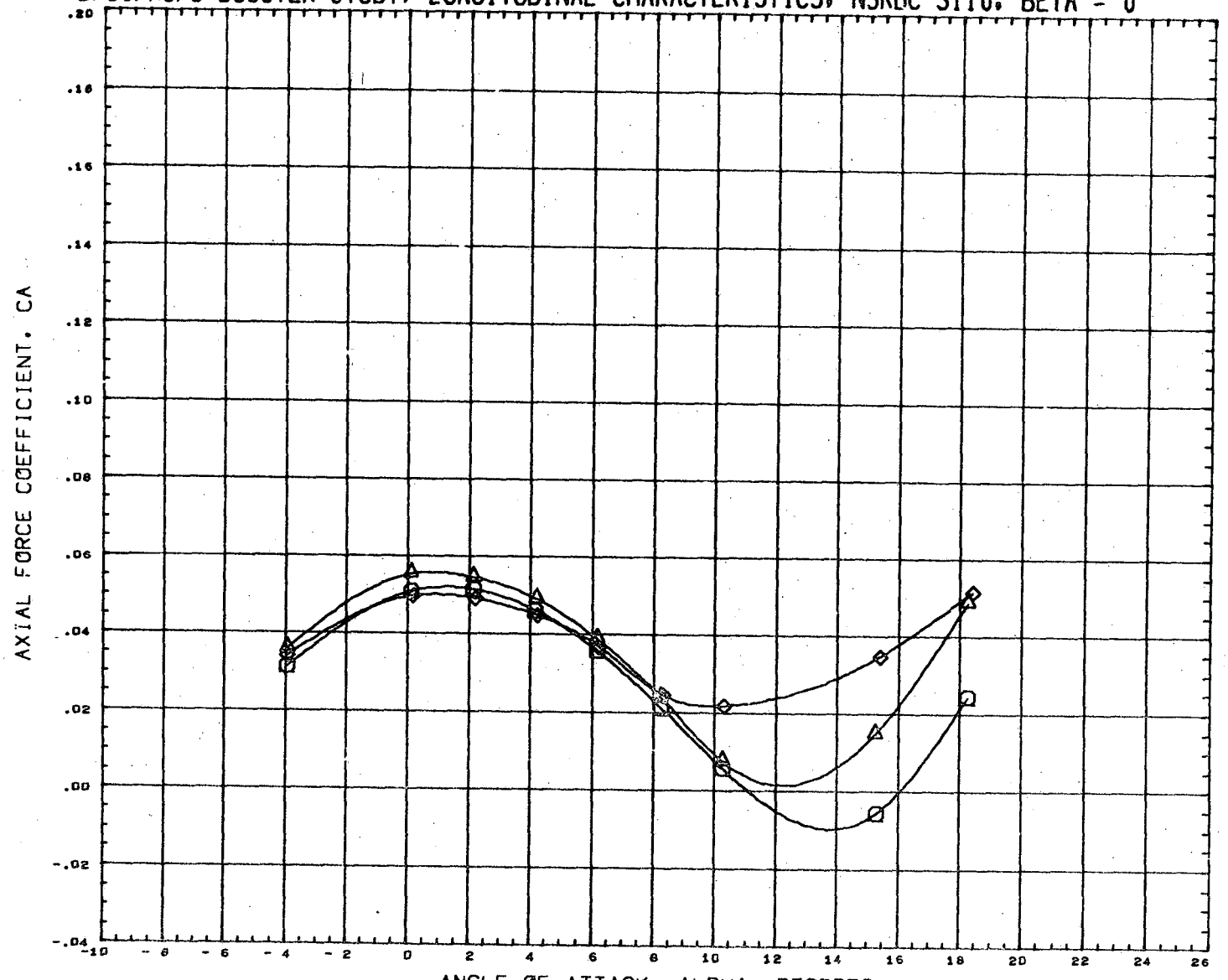
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2025)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000
(RN2217)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000
(RN2277)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

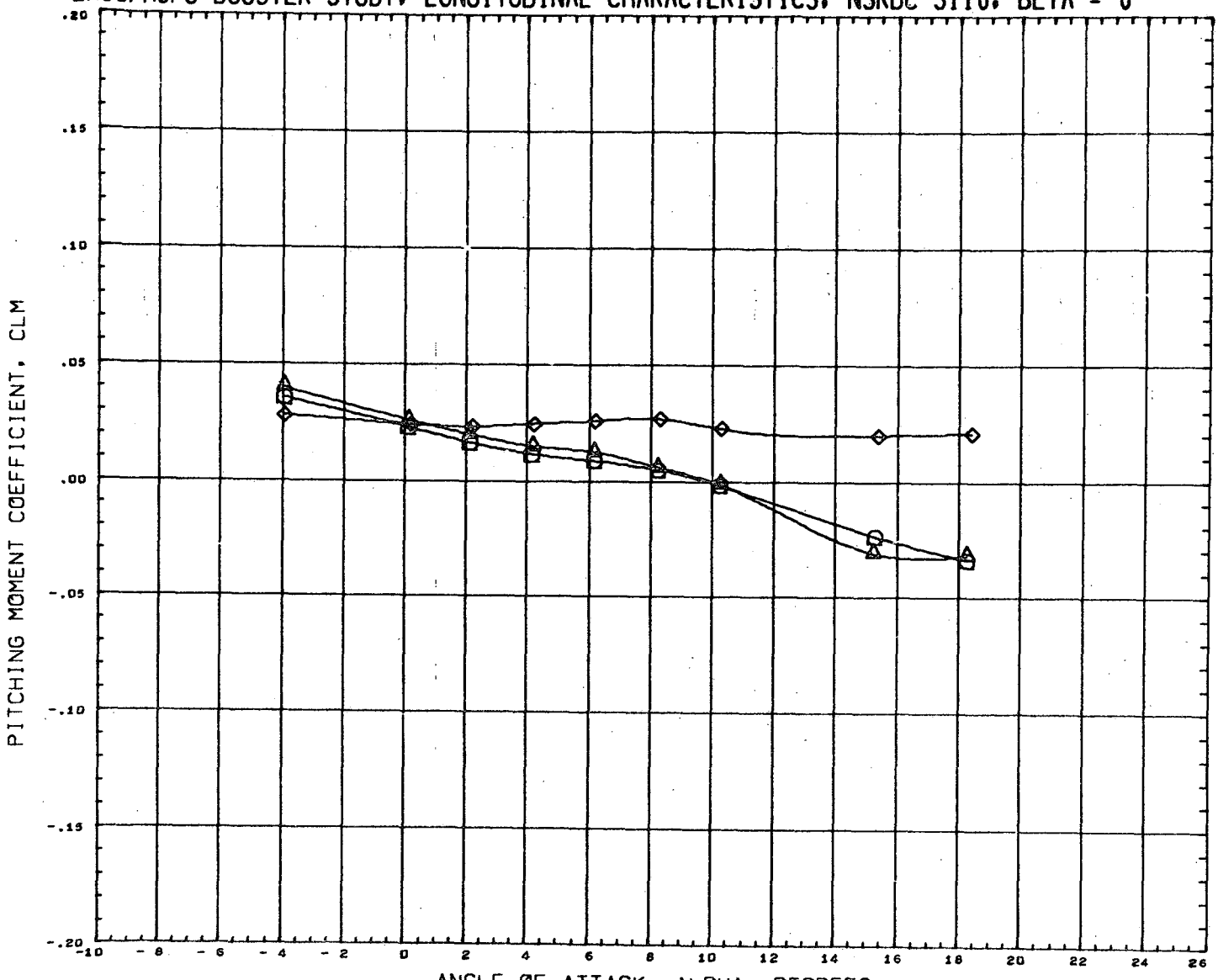


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2025)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000
(RN2217)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000
(RN2277)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

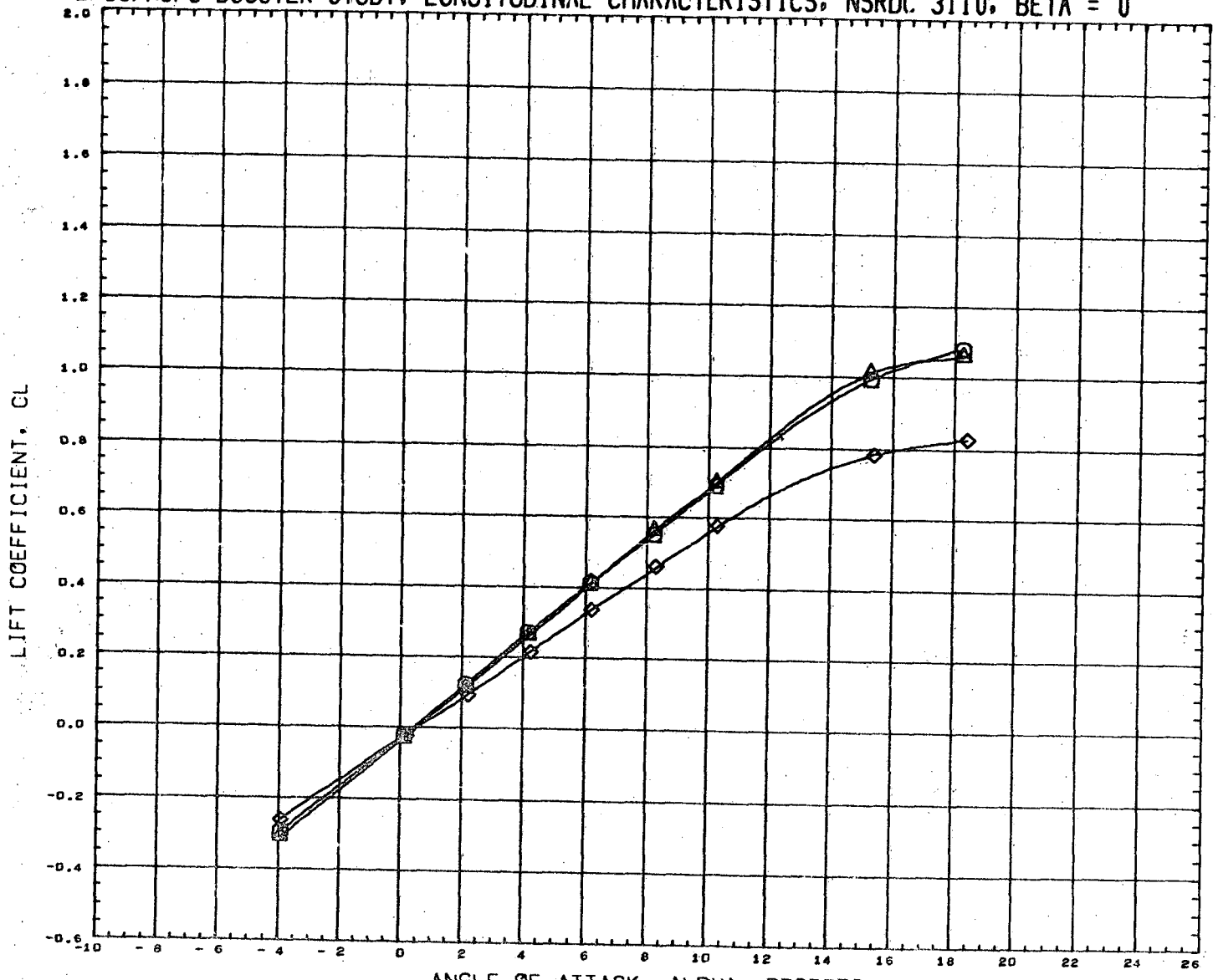


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2025)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000
(RN2217)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000
(RN2277)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

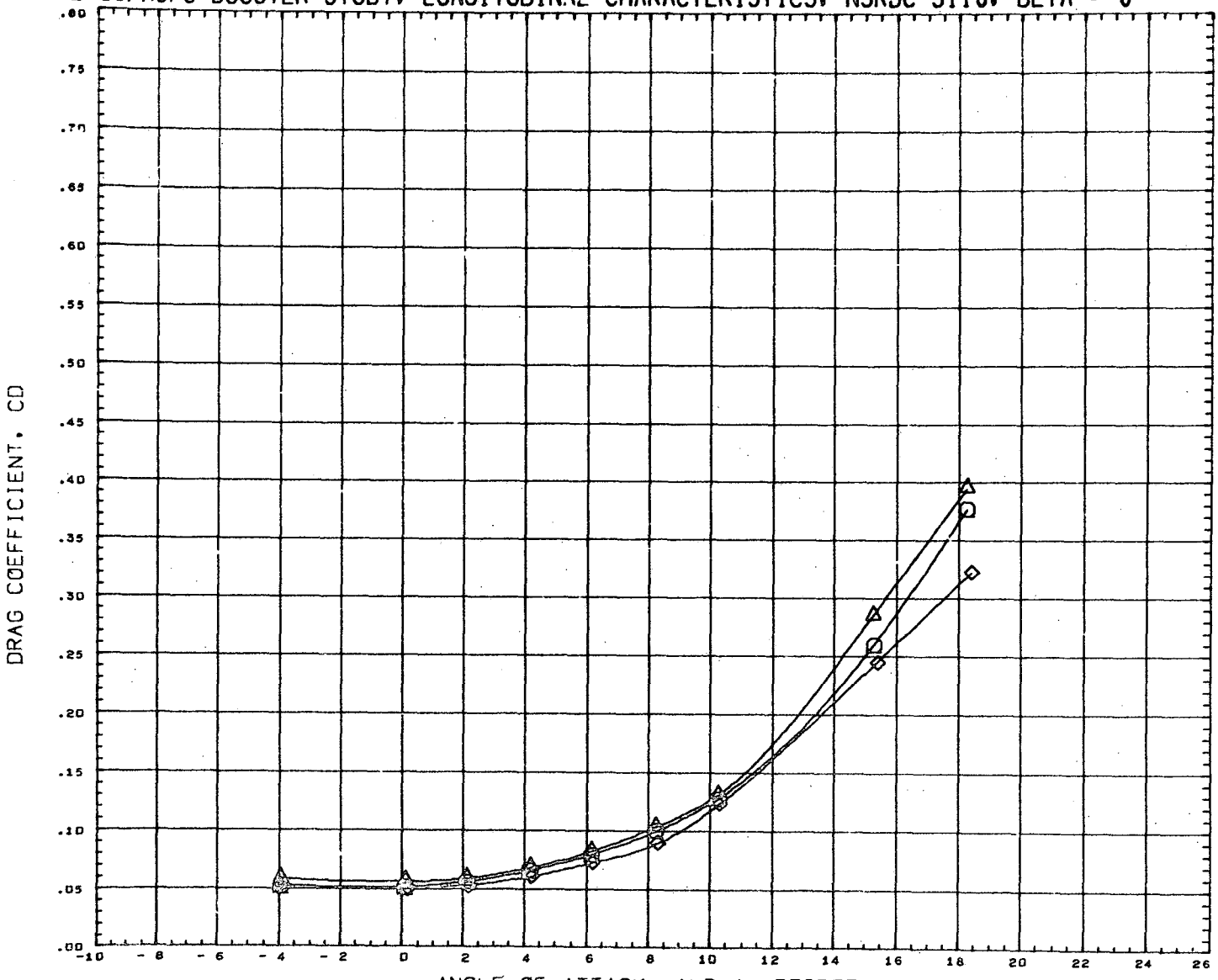


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2025) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000
(RN2217) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000
(RN2277) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

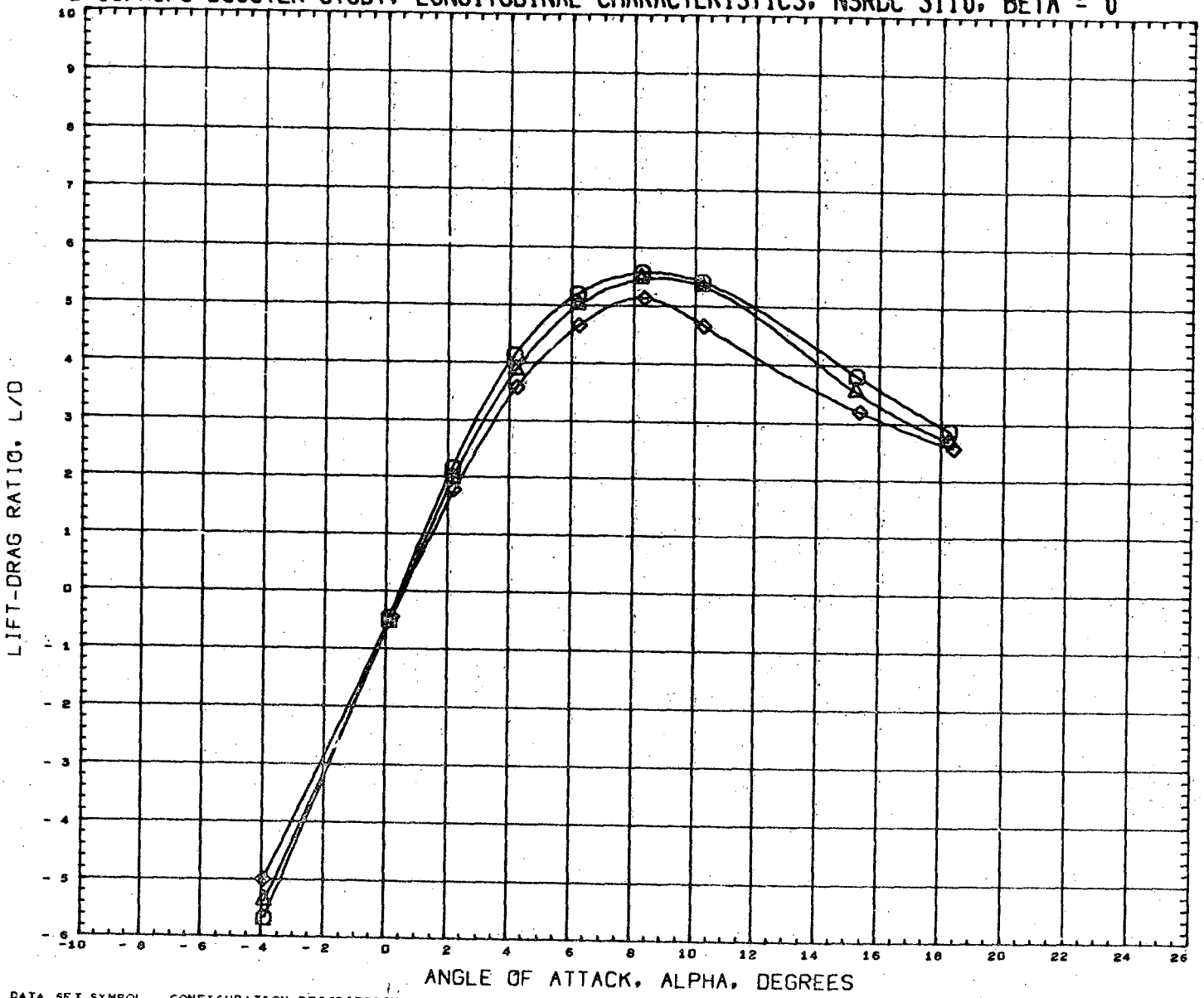


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2025)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000
(RN2217)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000
(RN2277)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

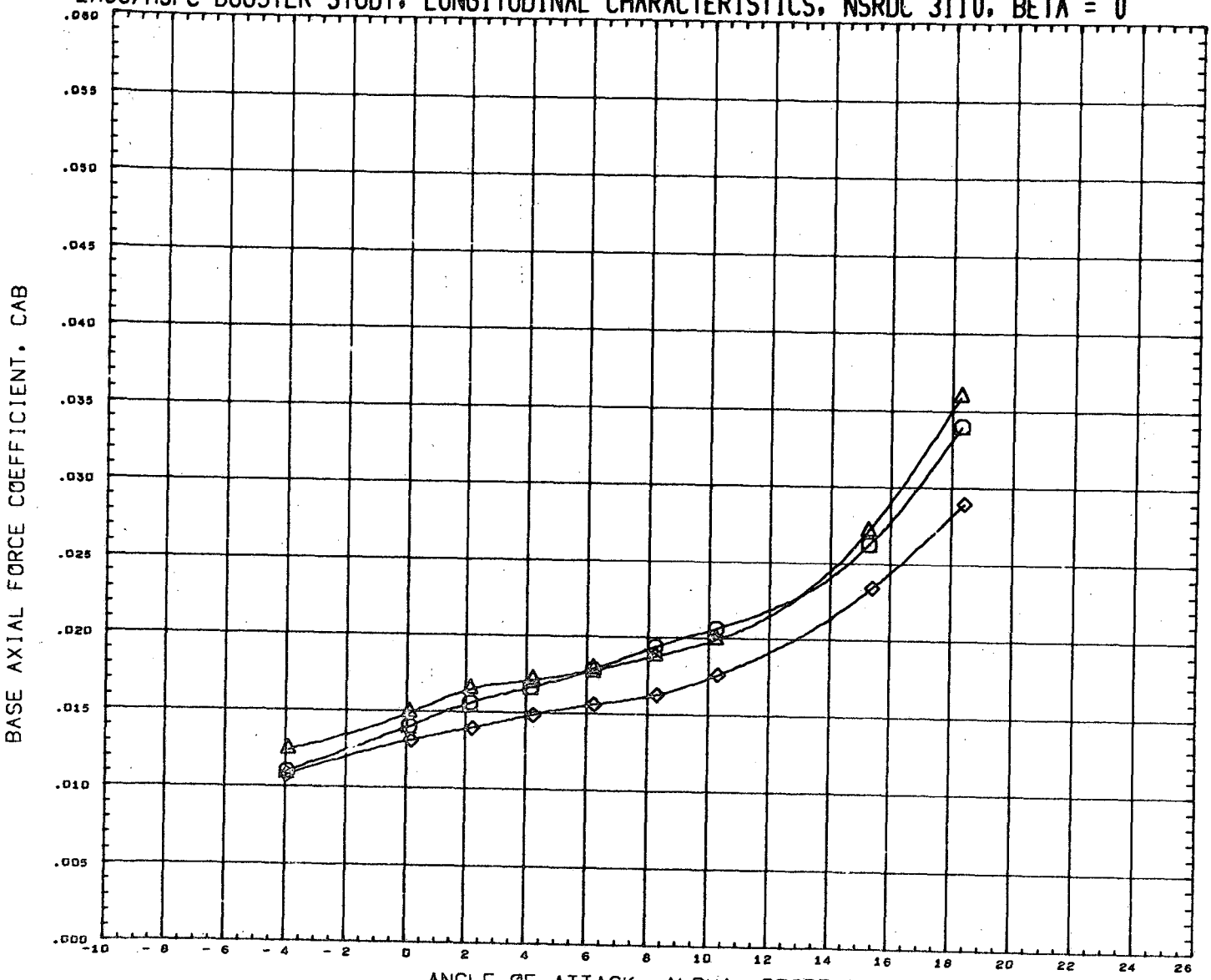


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2025)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000
(RN2217)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000
(RN2277)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

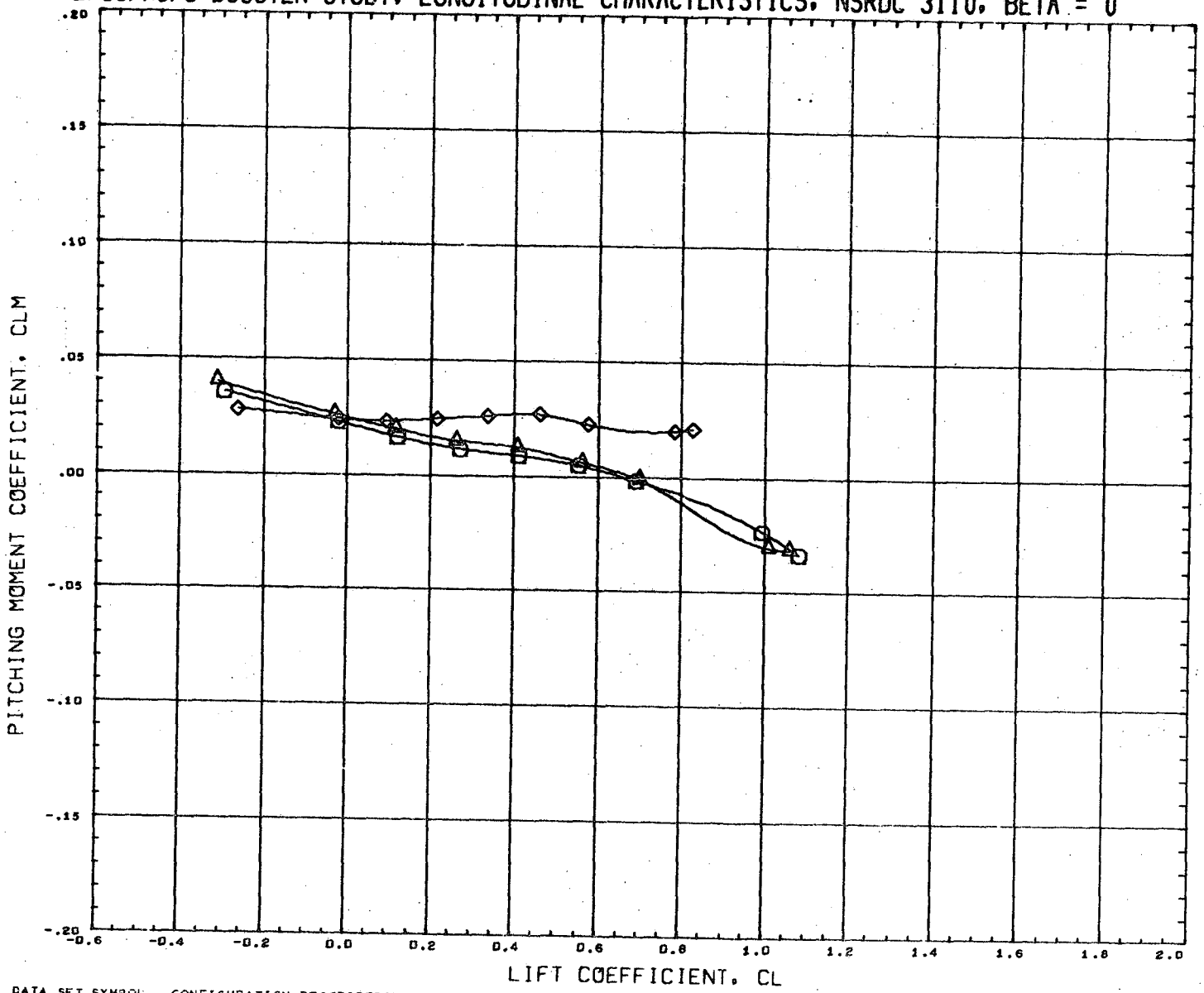


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2025)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000
(RN2217)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000
(RN2277)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

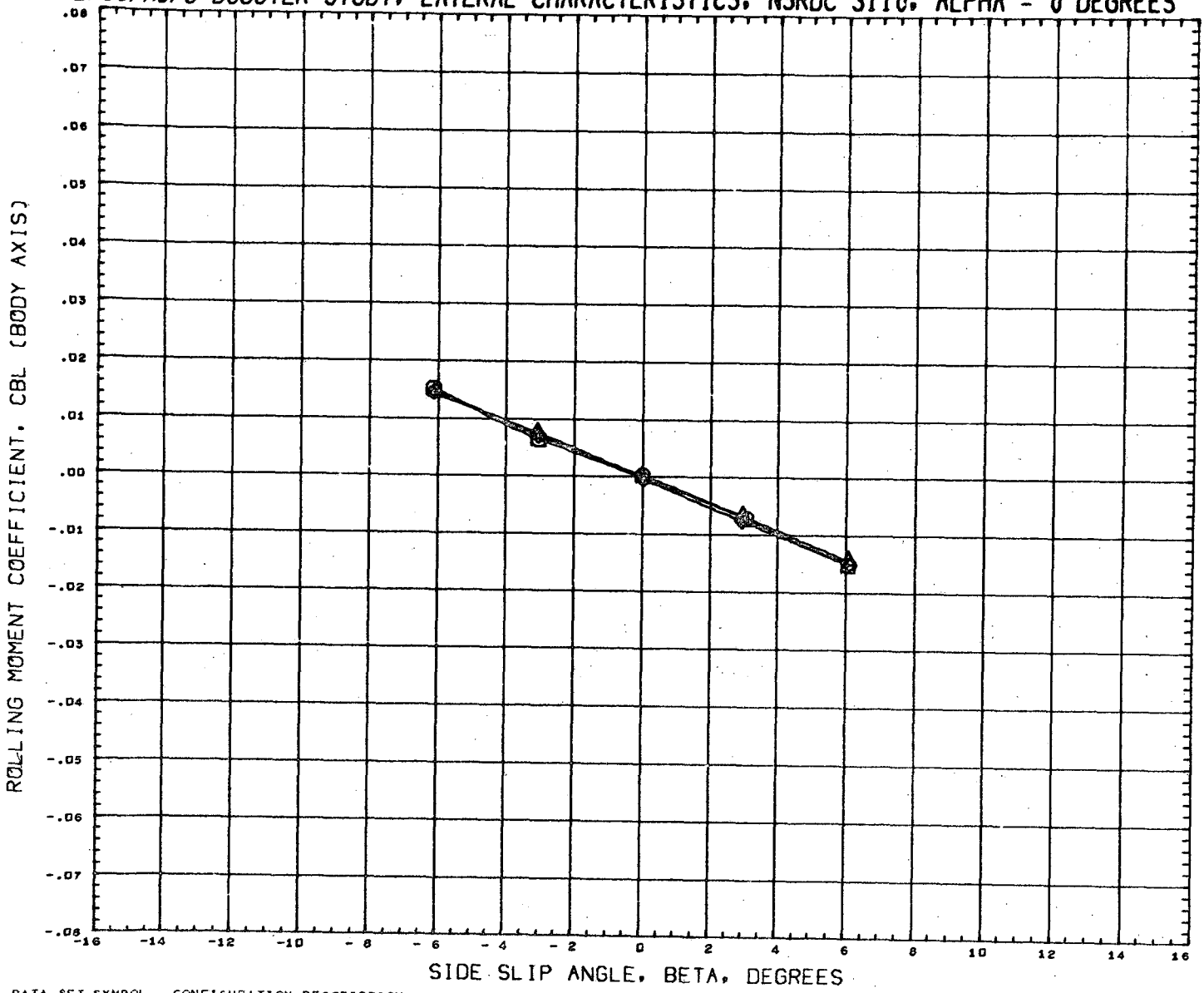


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2025)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000
(RN2217)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000
(RN2277)	◇	NSRDC-311D,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

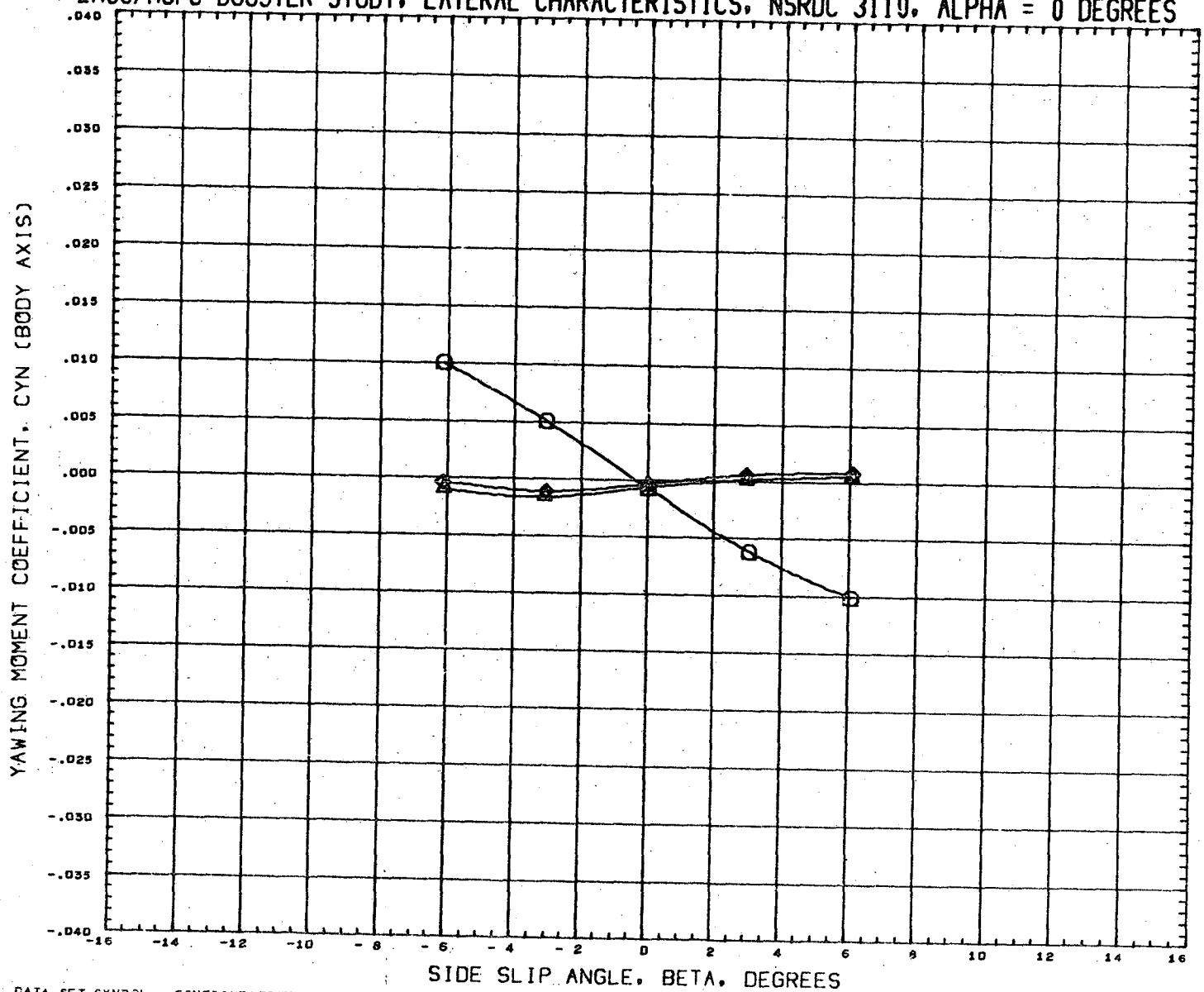


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2026)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000
(RN2218)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000
(RN2278)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



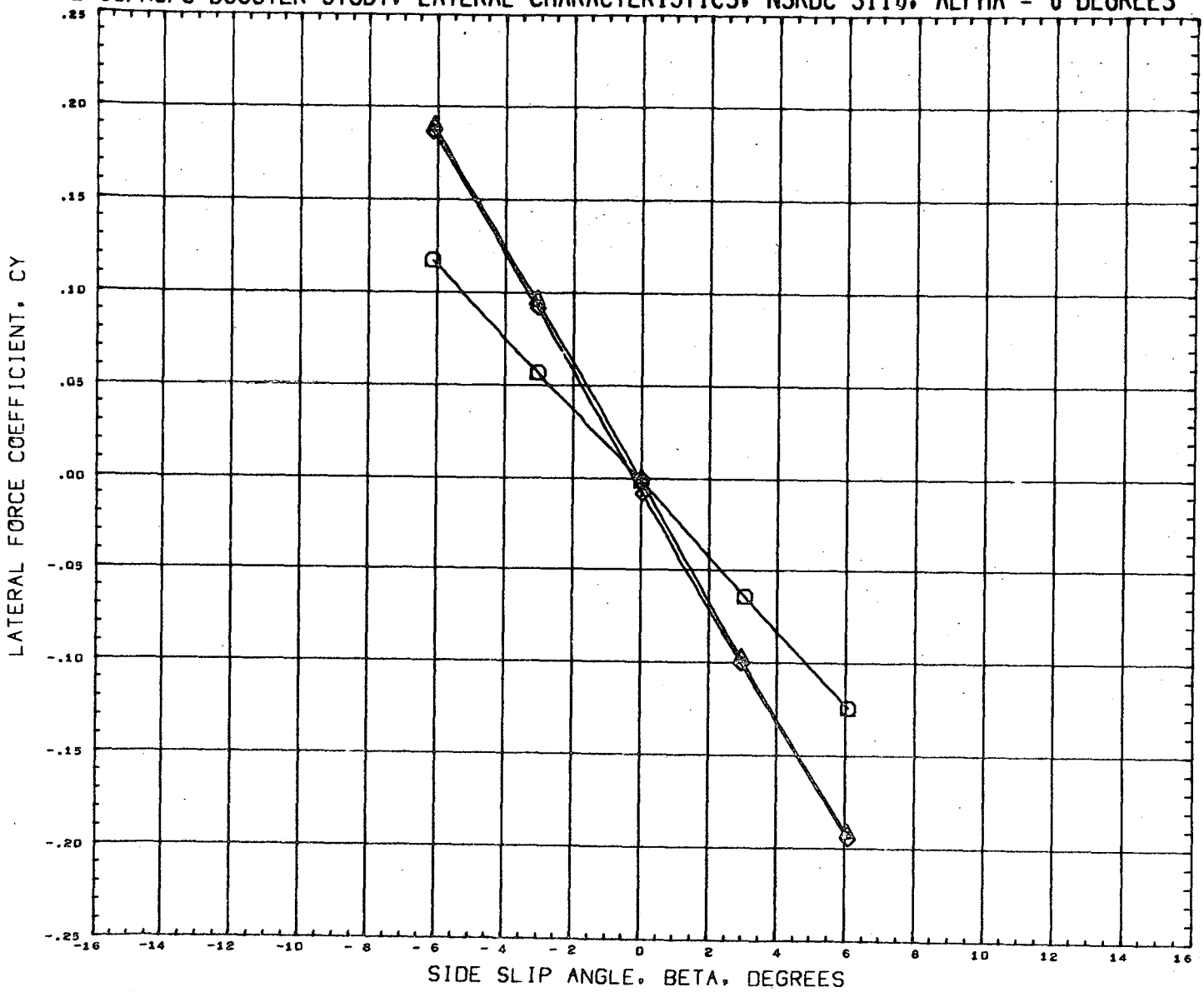
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2026)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2218)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2278)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	2.000
3.000	2.000	0.000	2.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.361

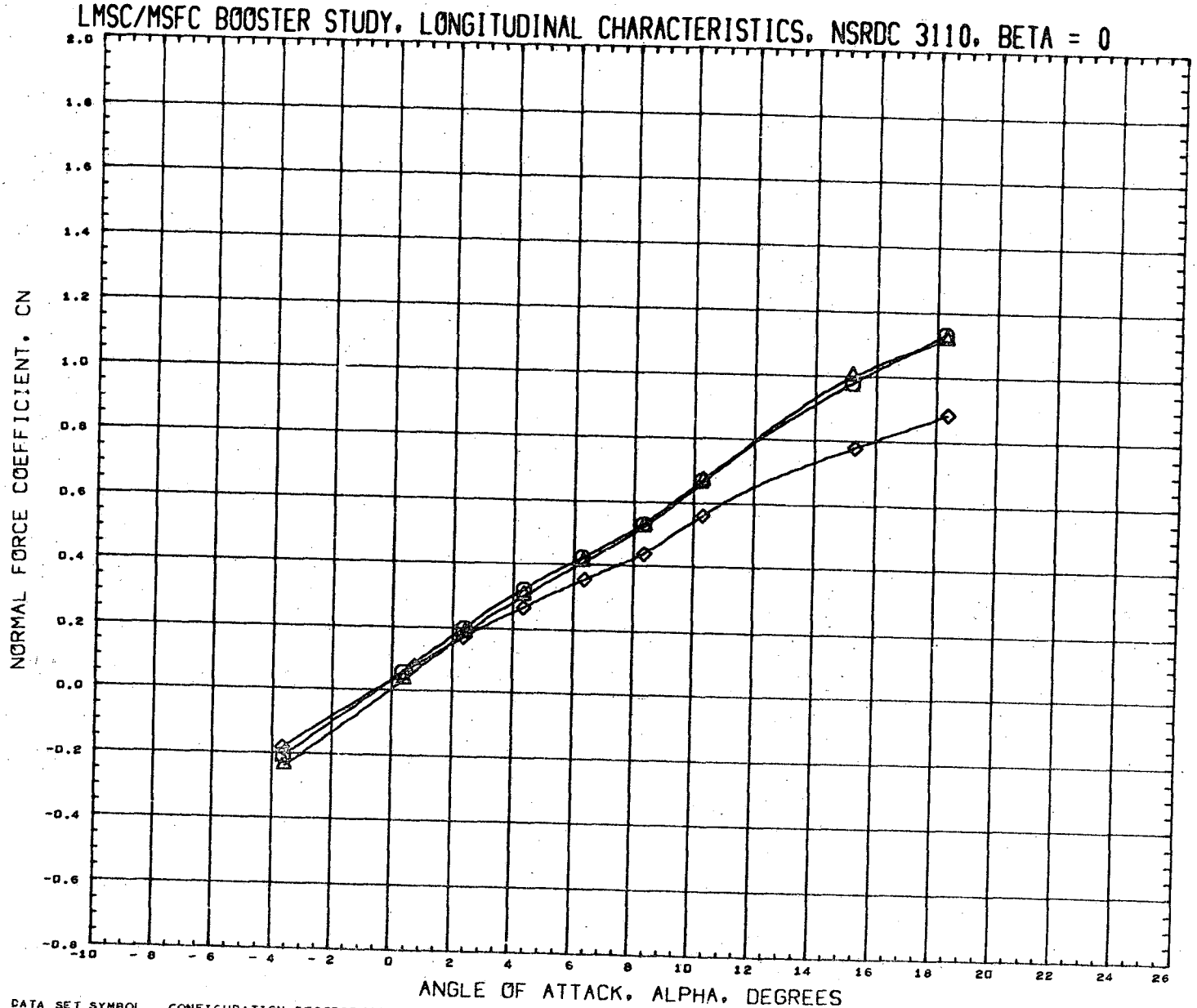
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2026)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000
(RN2218)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000
(RN2278)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	71.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

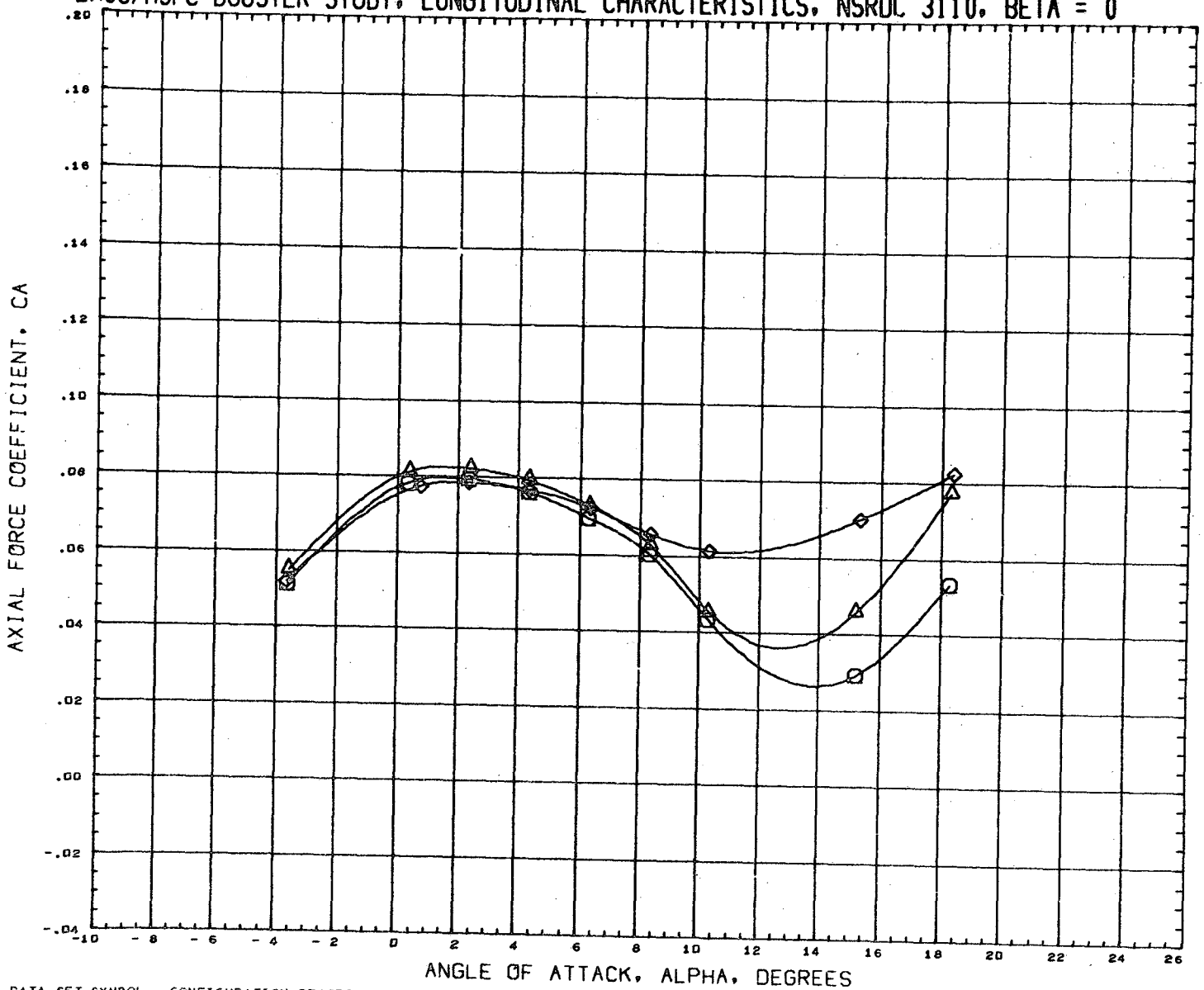


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000
(RN2221)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000
(RN2281)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2029)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2221)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2281)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

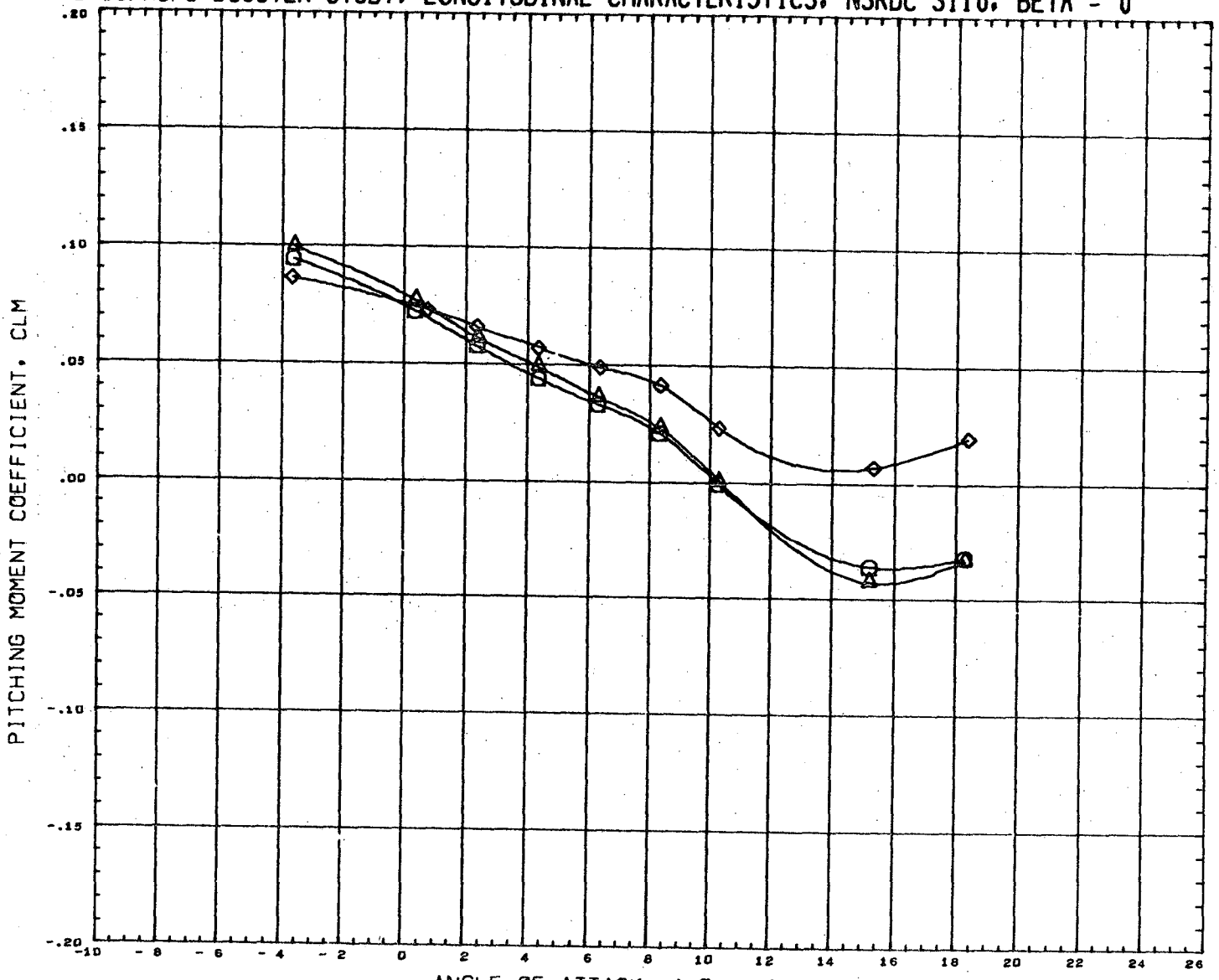
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	2.000
15.000	2.000	0.000	2.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

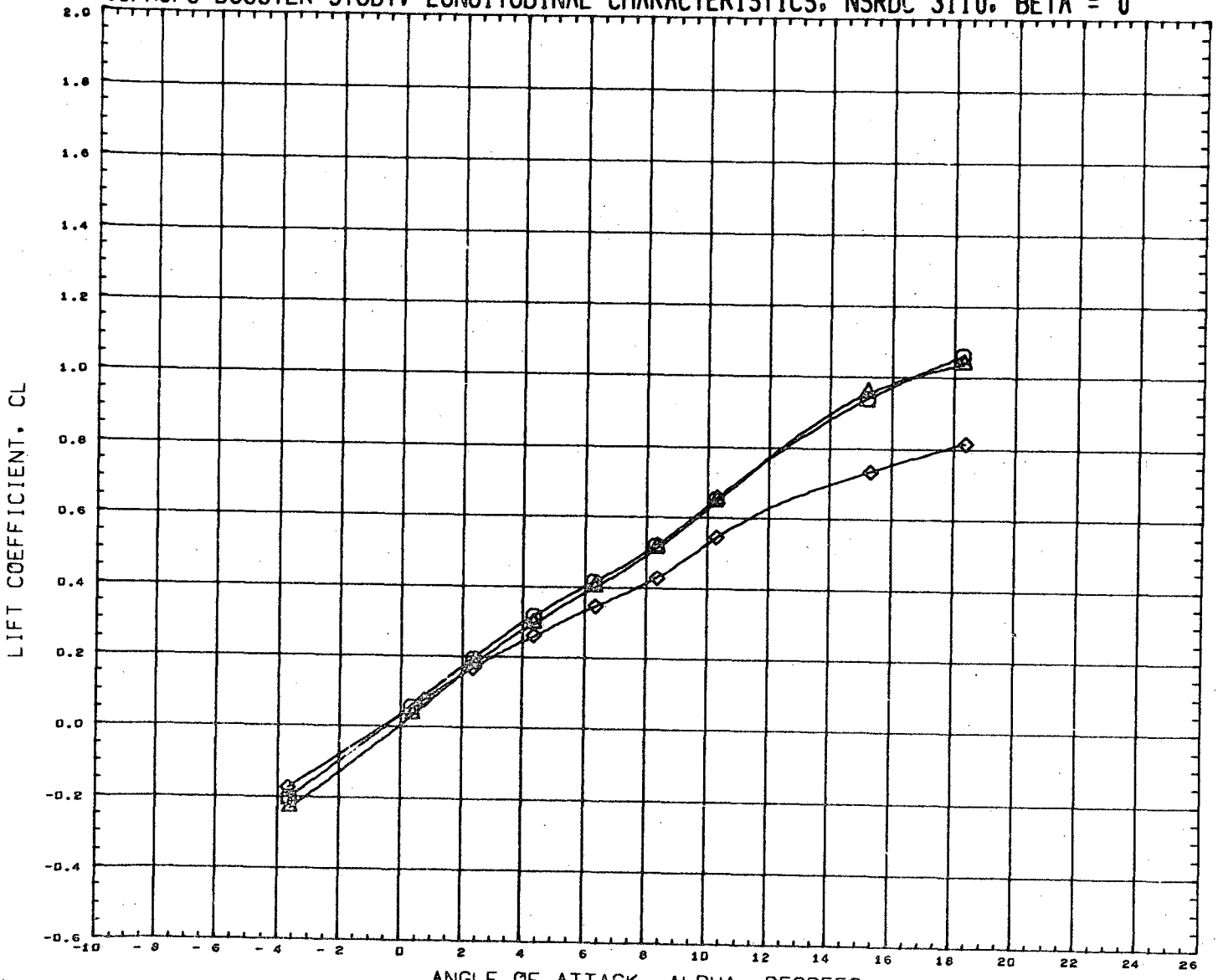


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2029)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000
(RN2221)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000
(RN2281)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



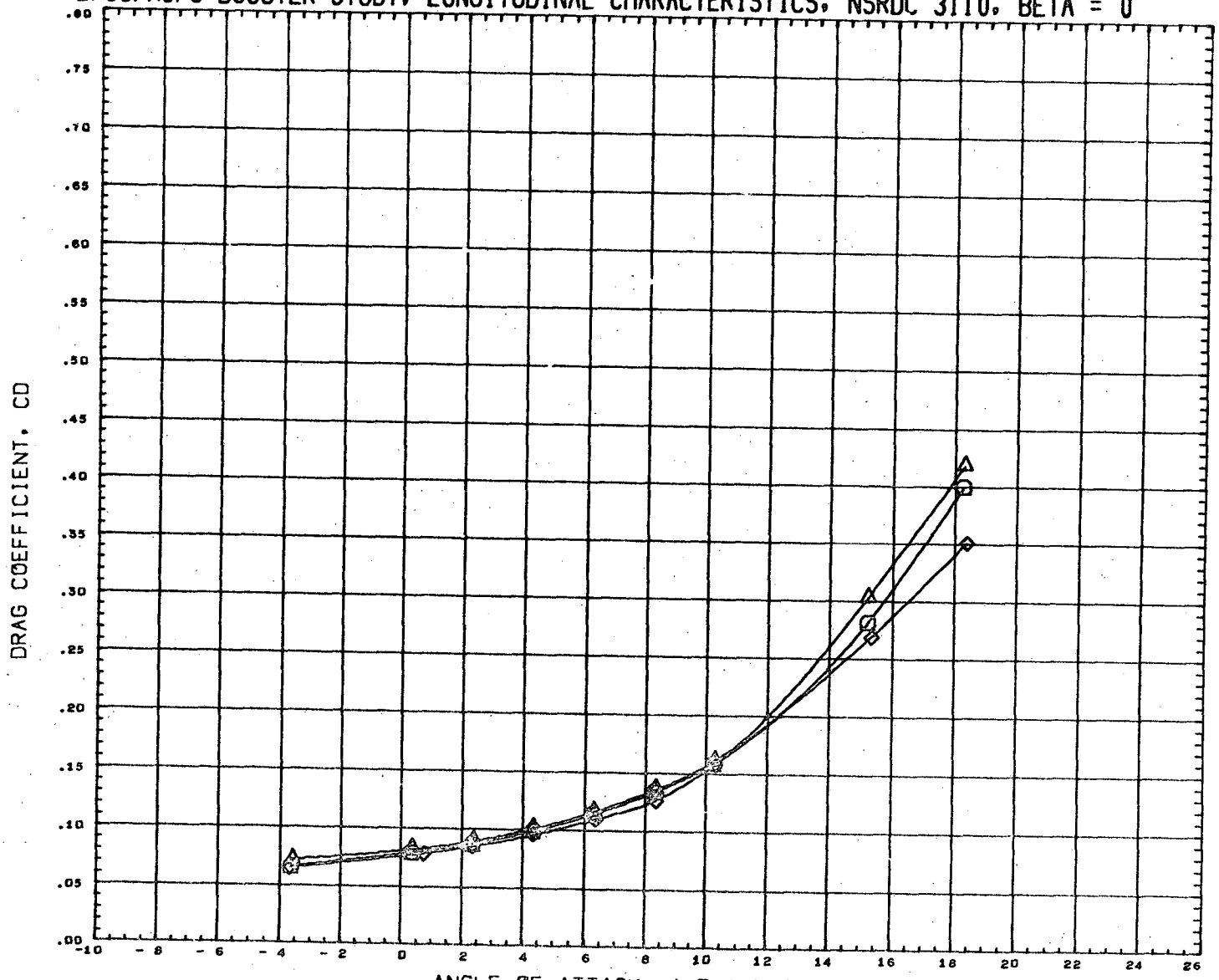
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2029)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000
(RN2221)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000
(RN2281)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

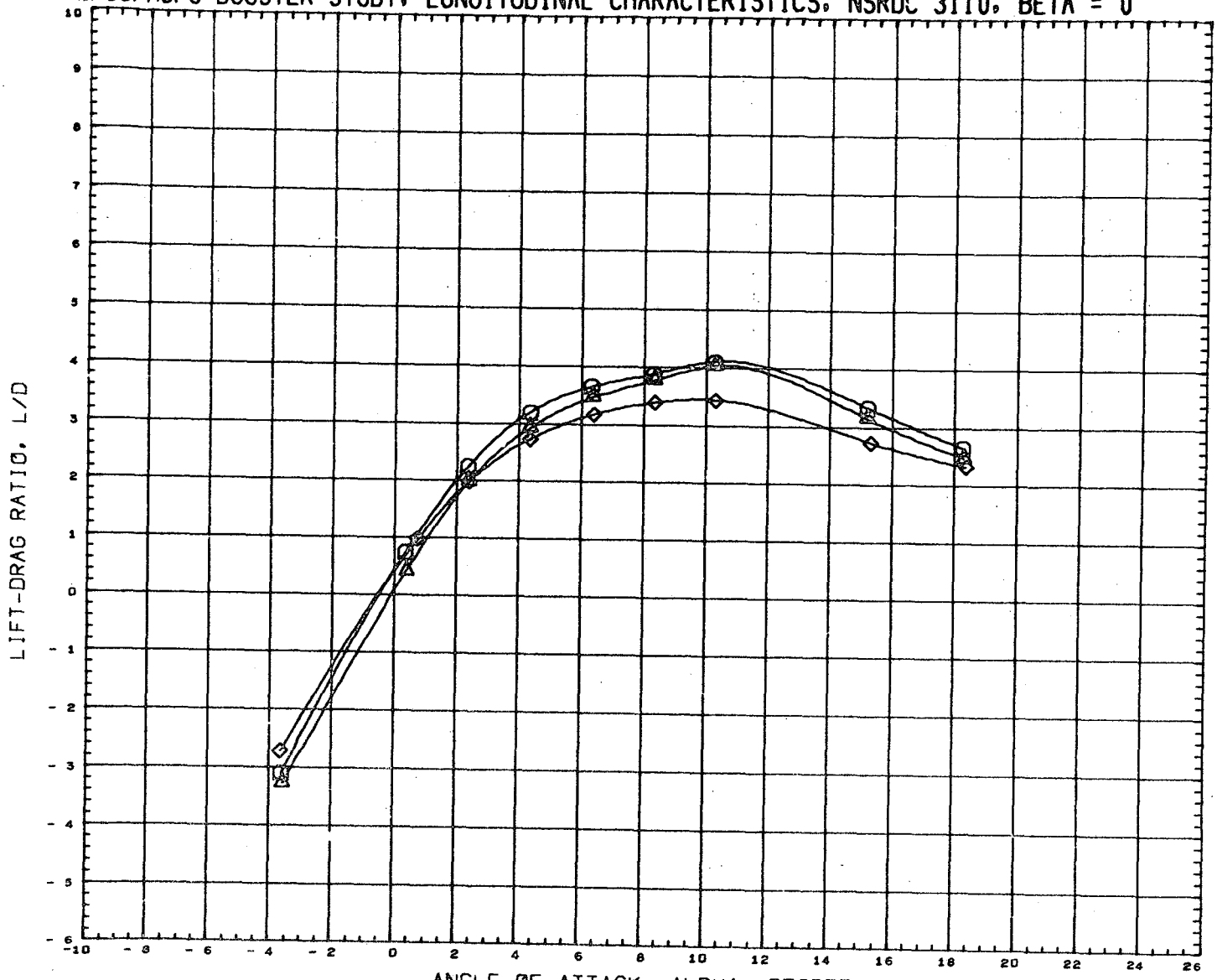


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2029) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000
(RN2221) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000
(RN2281) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



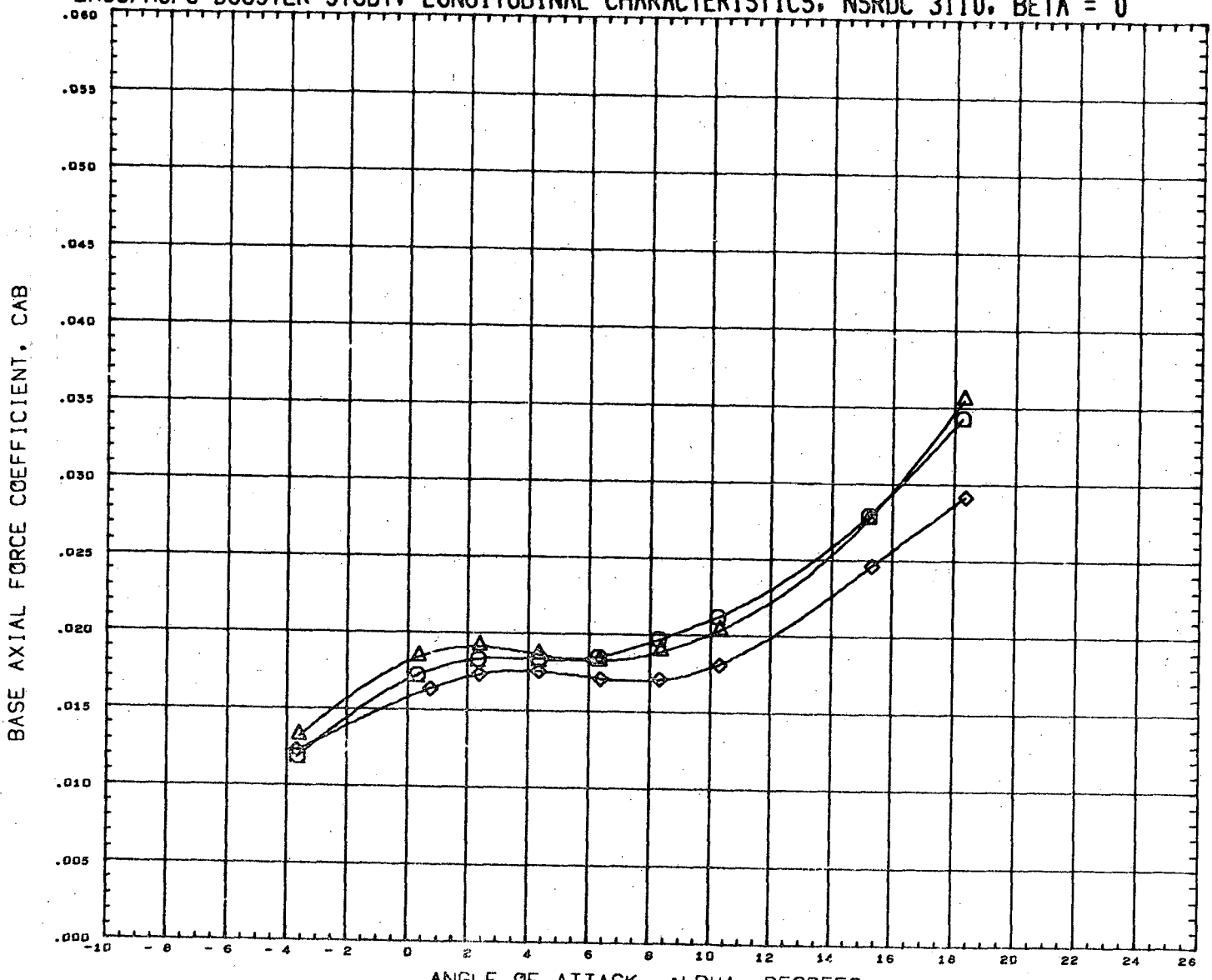
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2029)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2221)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2281)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	2.000
15.000	2.000	0.000	2.000
15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

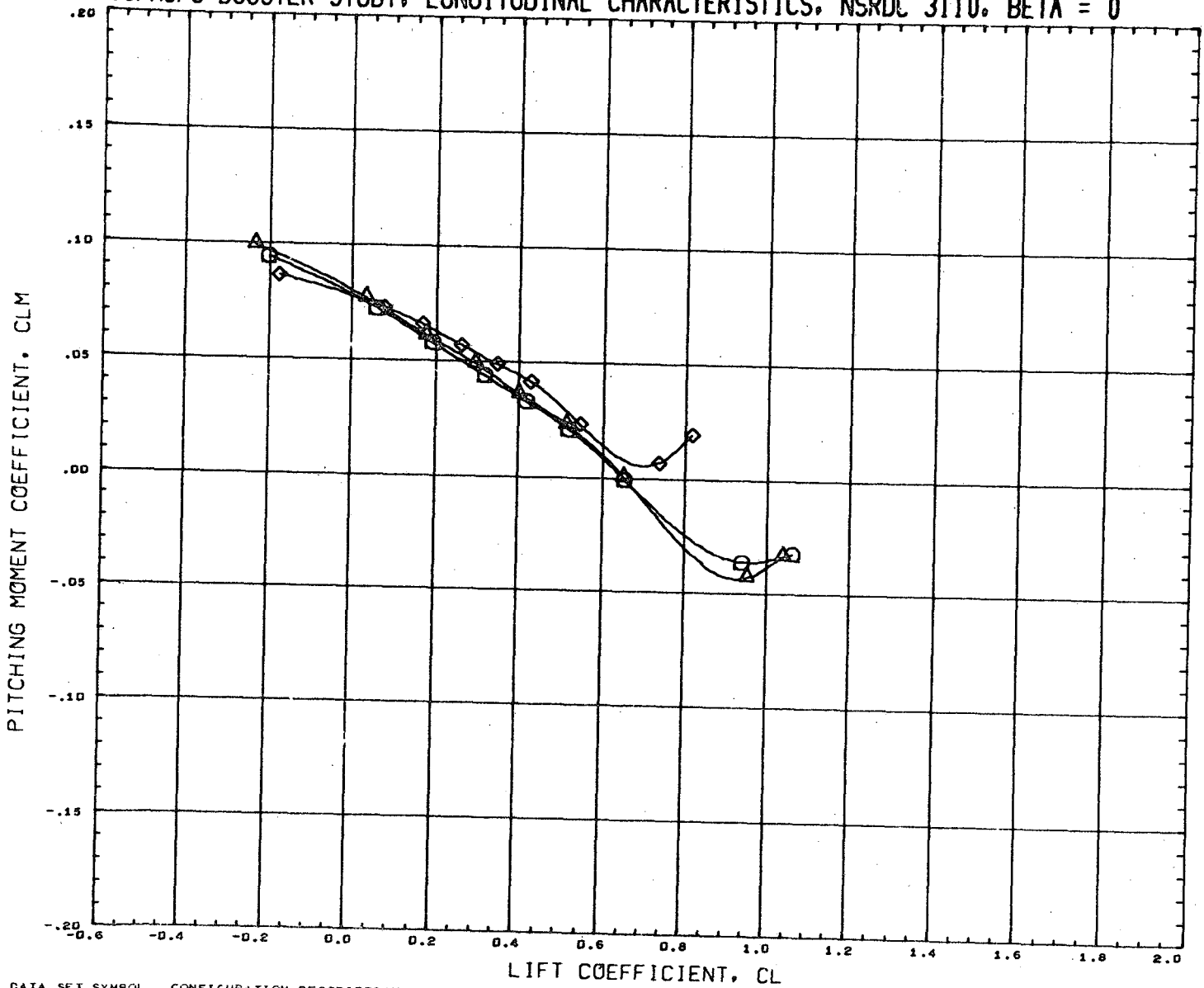


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2029)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000
(RN2221)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000
(RN2281)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2221)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2281)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

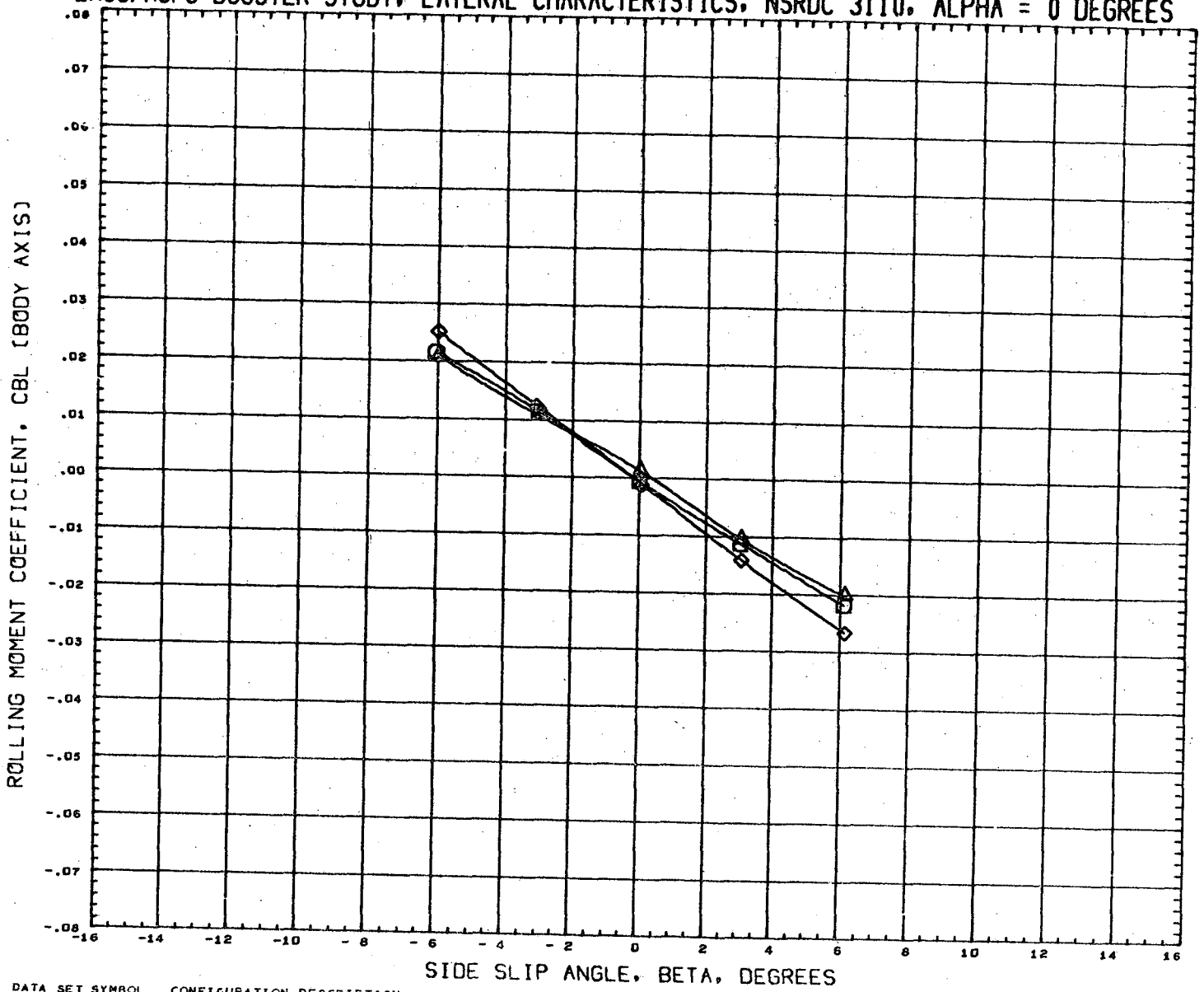
INCIDC	CNDFOS	INCIDW	WNGPOS
15.000	2.000	0.000	2.000
15.000	2.000	0.000	2.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

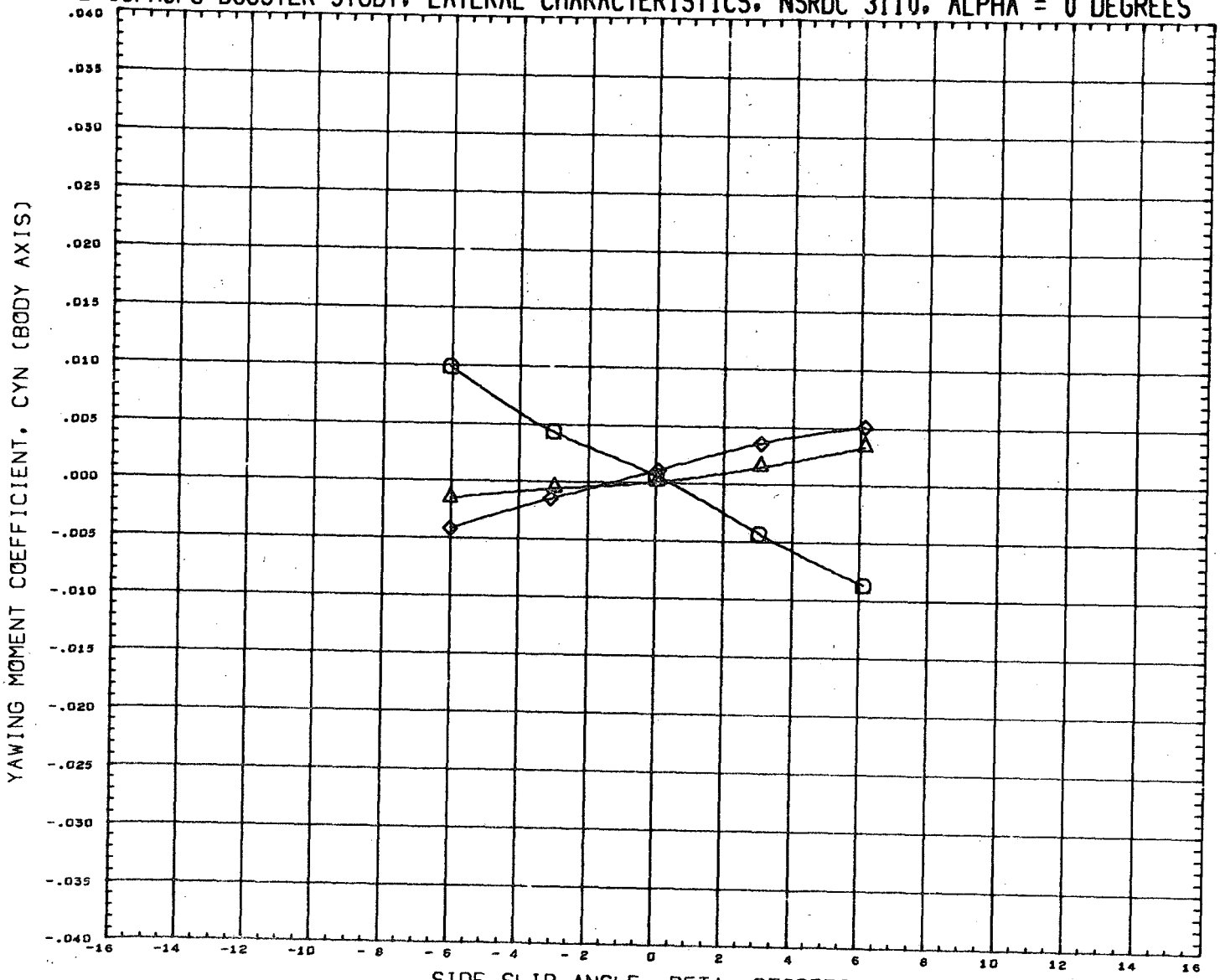


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2030) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000
(RN2222) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000
(RN2282) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

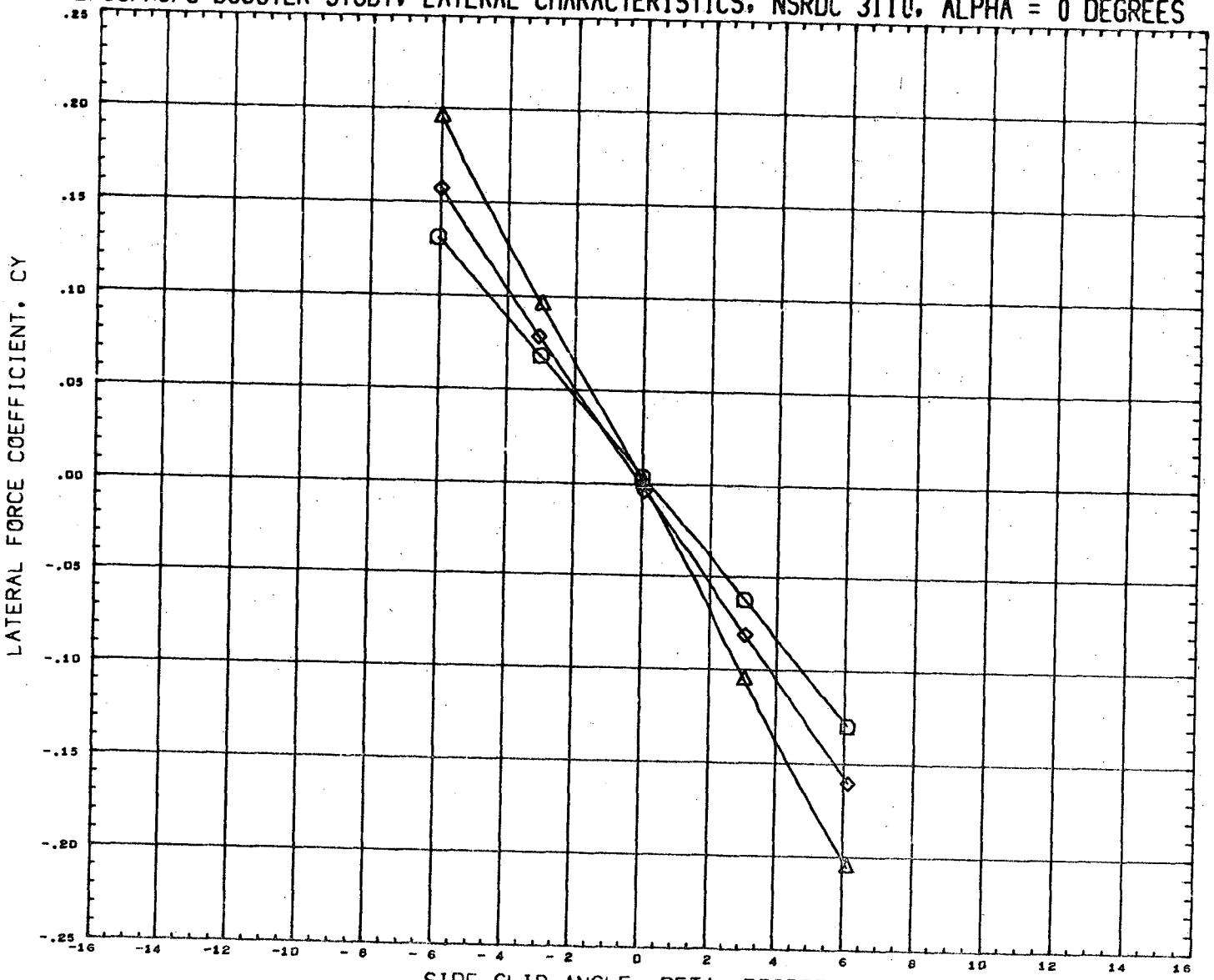


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2030)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000
(RN2222)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000
(RN2282)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



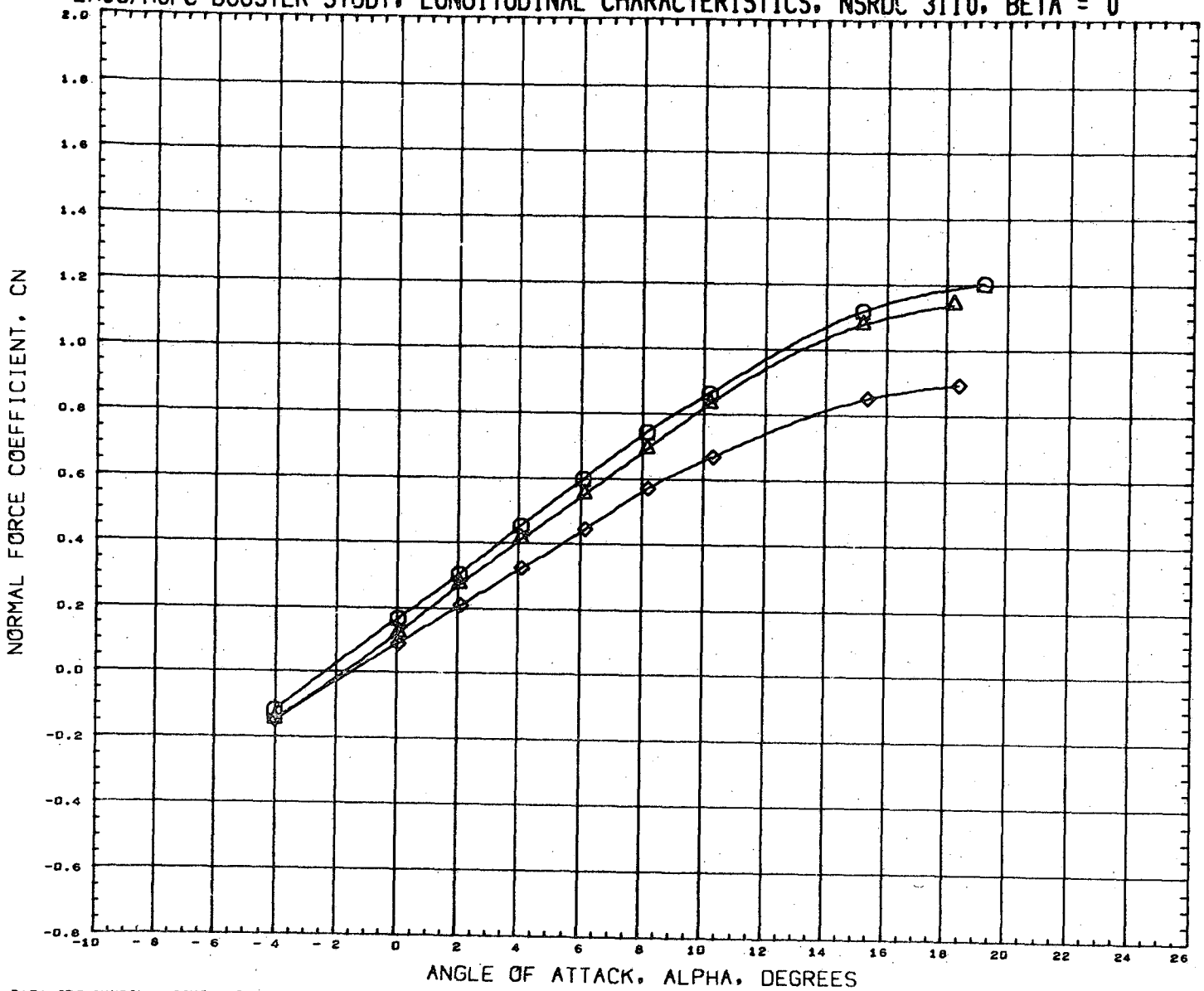
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2030) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000
(RN2222) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000
(RN2282) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

50

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2057)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2249)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2309)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

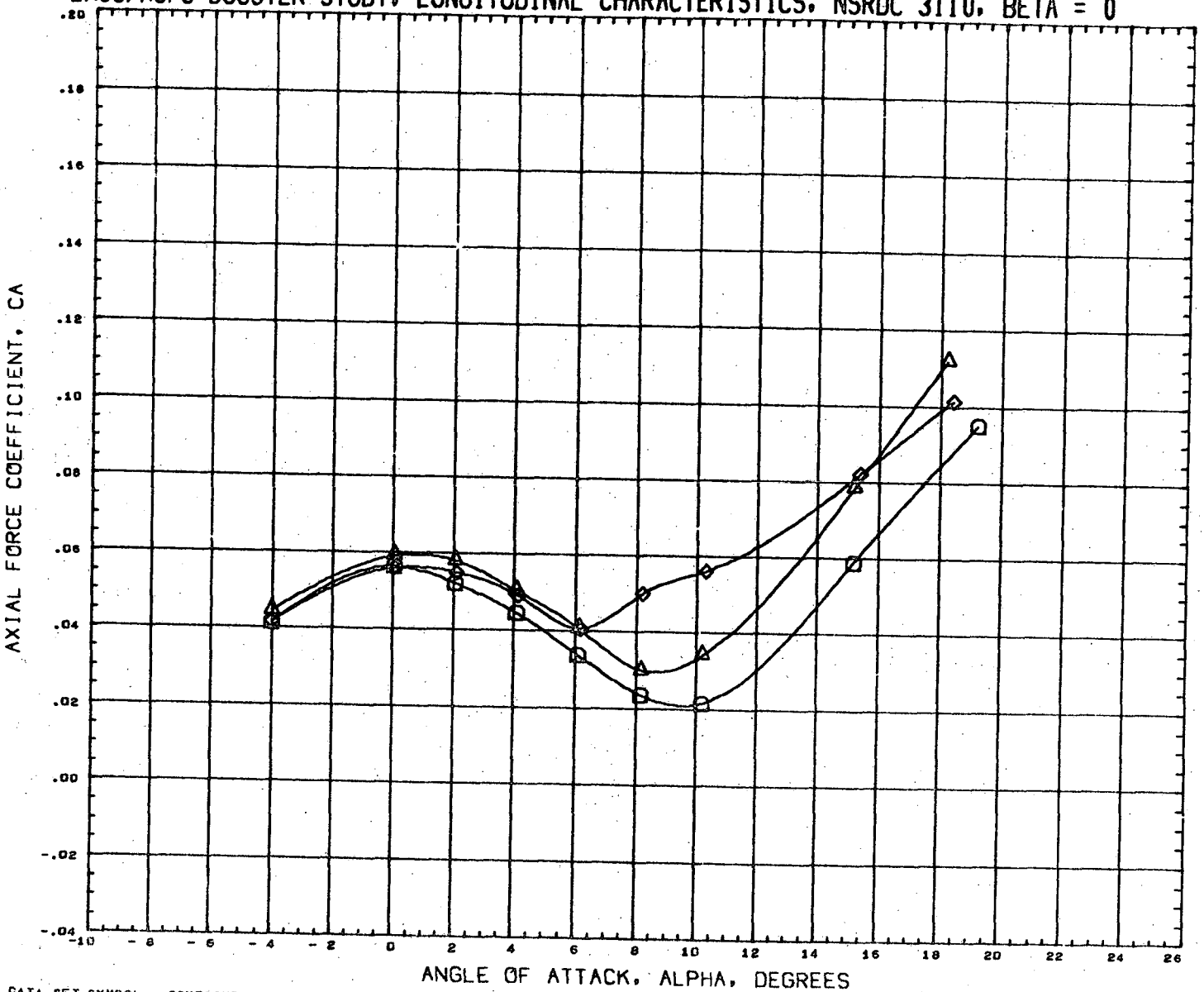
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



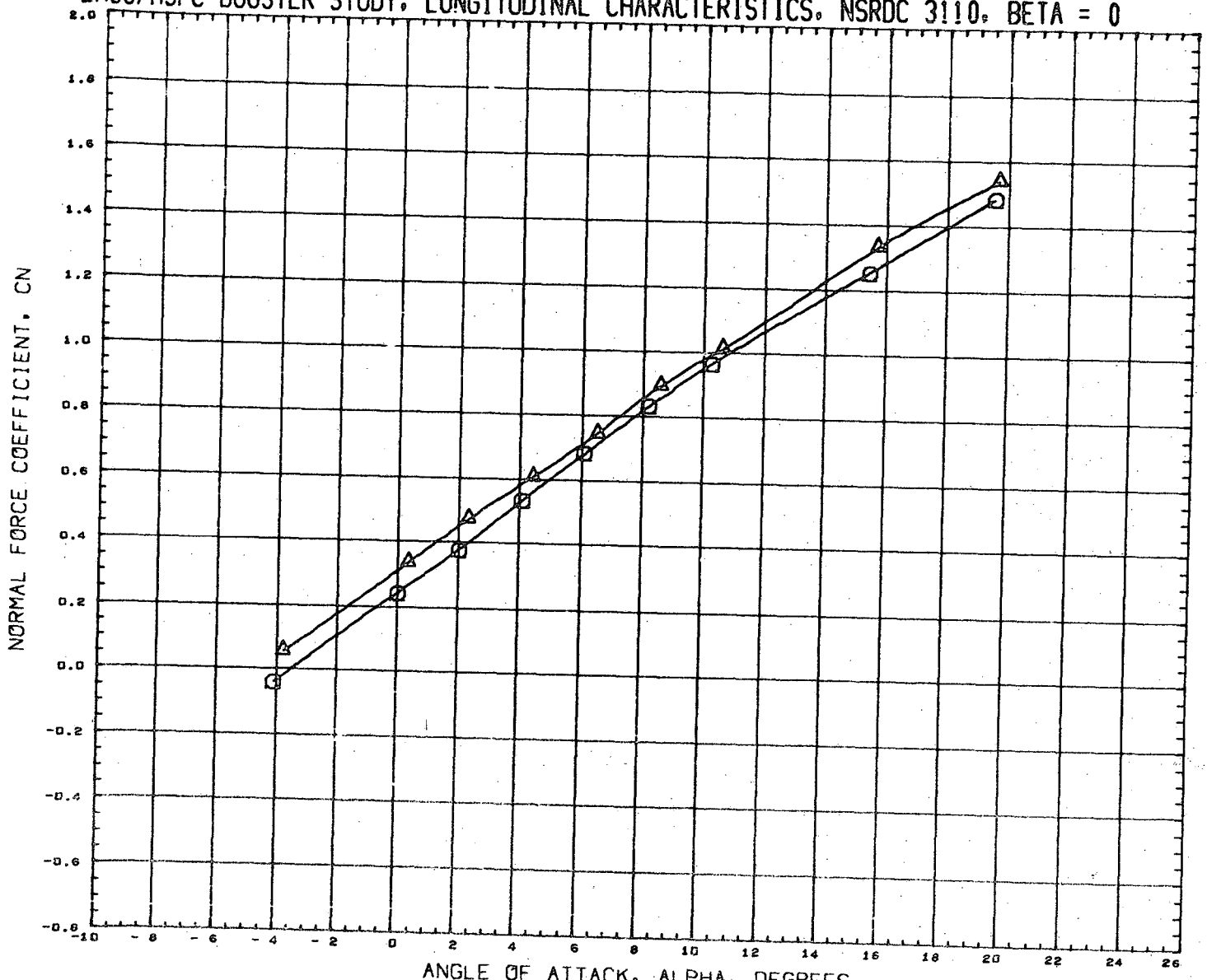
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2057)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2249)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2309)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.360

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



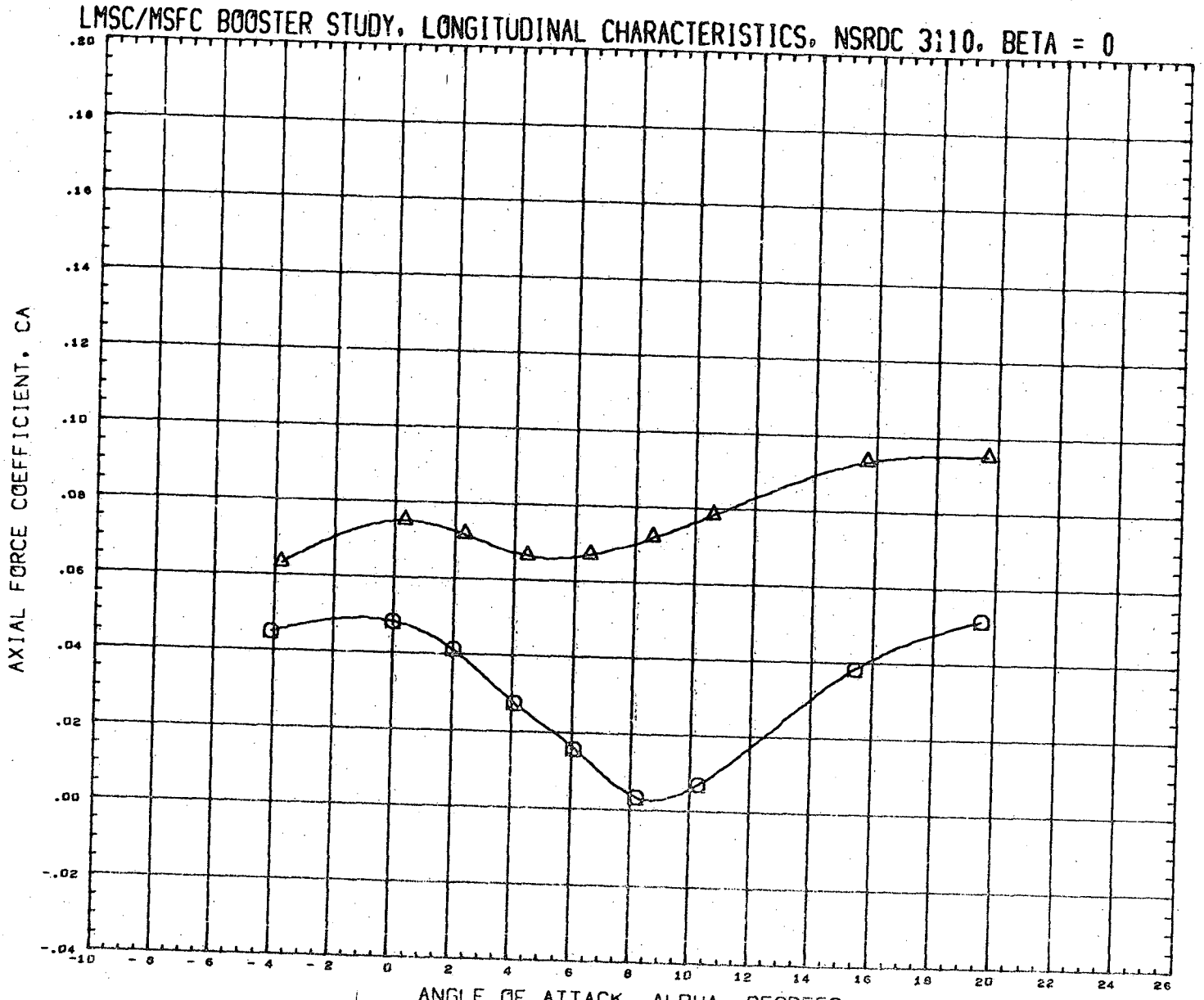
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2097)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2101)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.383



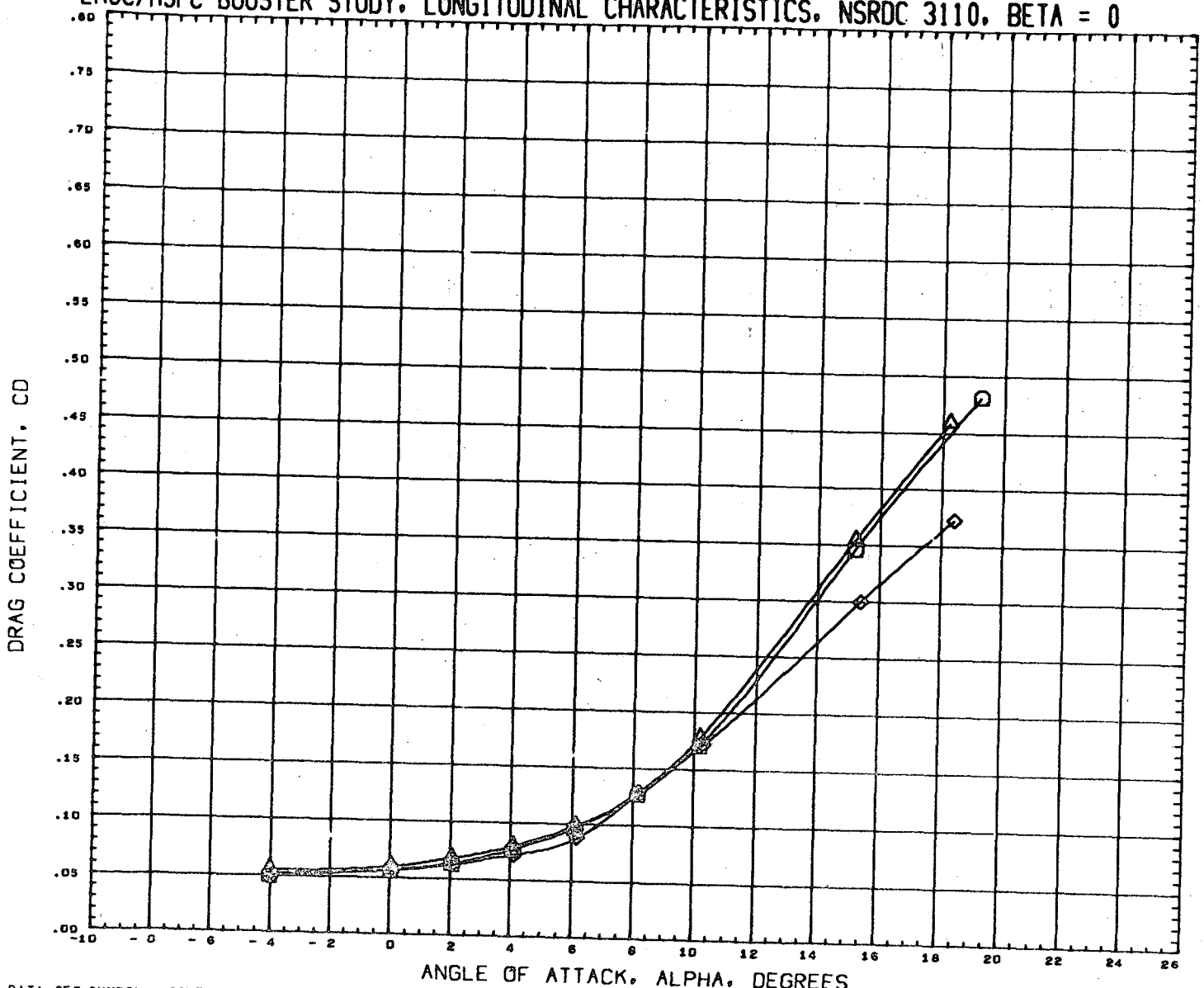
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2097)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2101)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	-.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2057)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2249)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2309)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

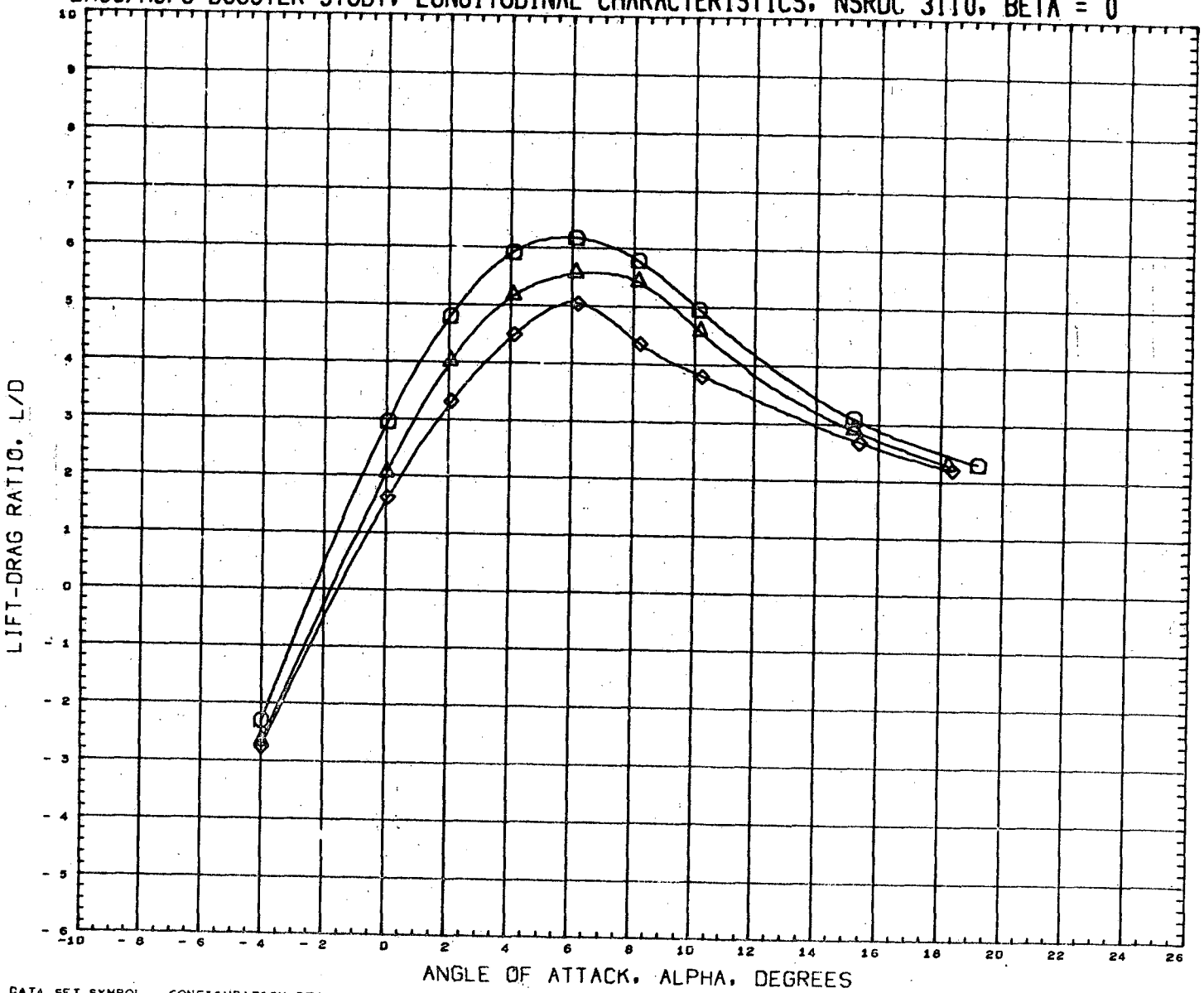
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000

MACH 0.300

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



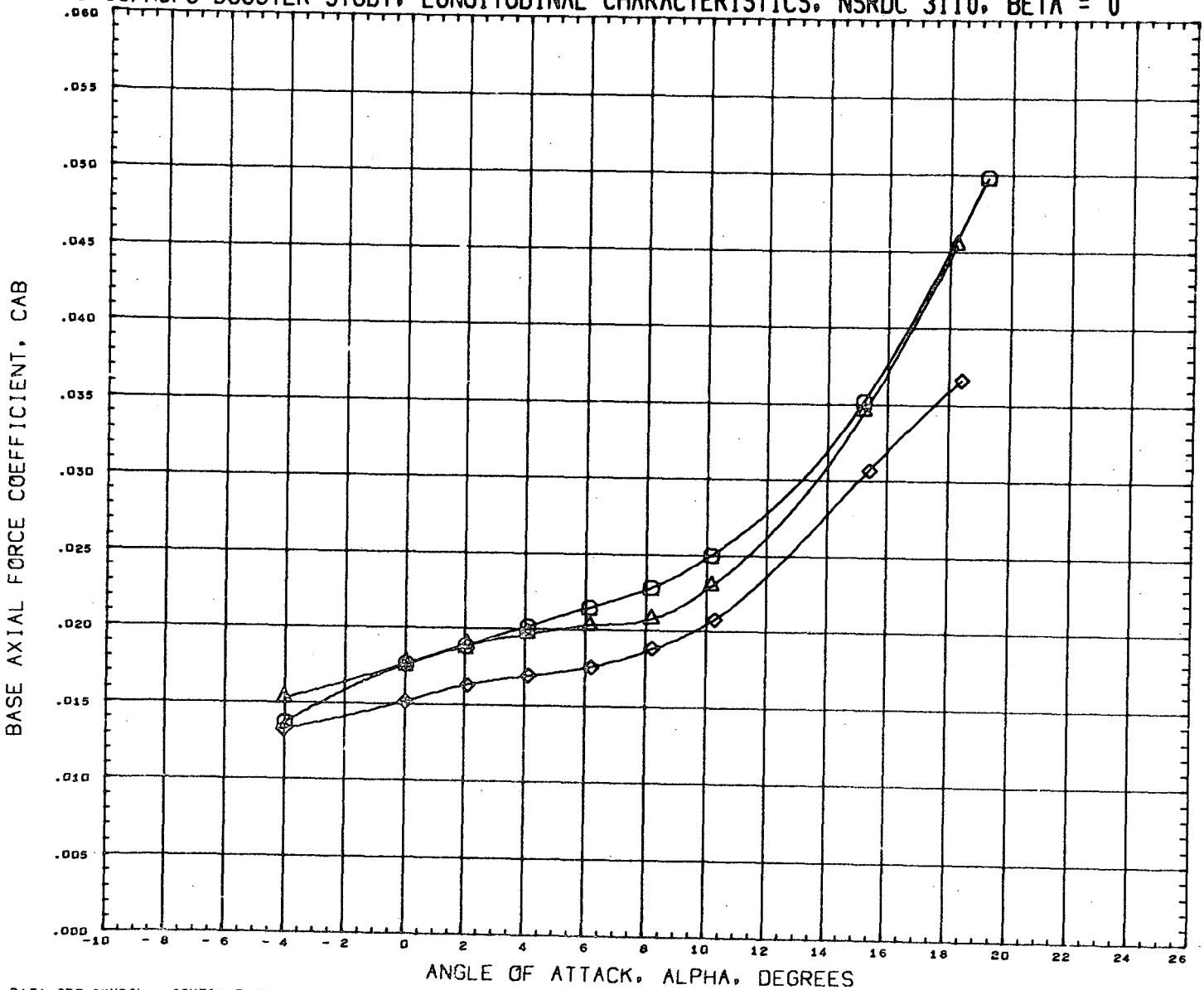
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2057)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2249)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2309)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



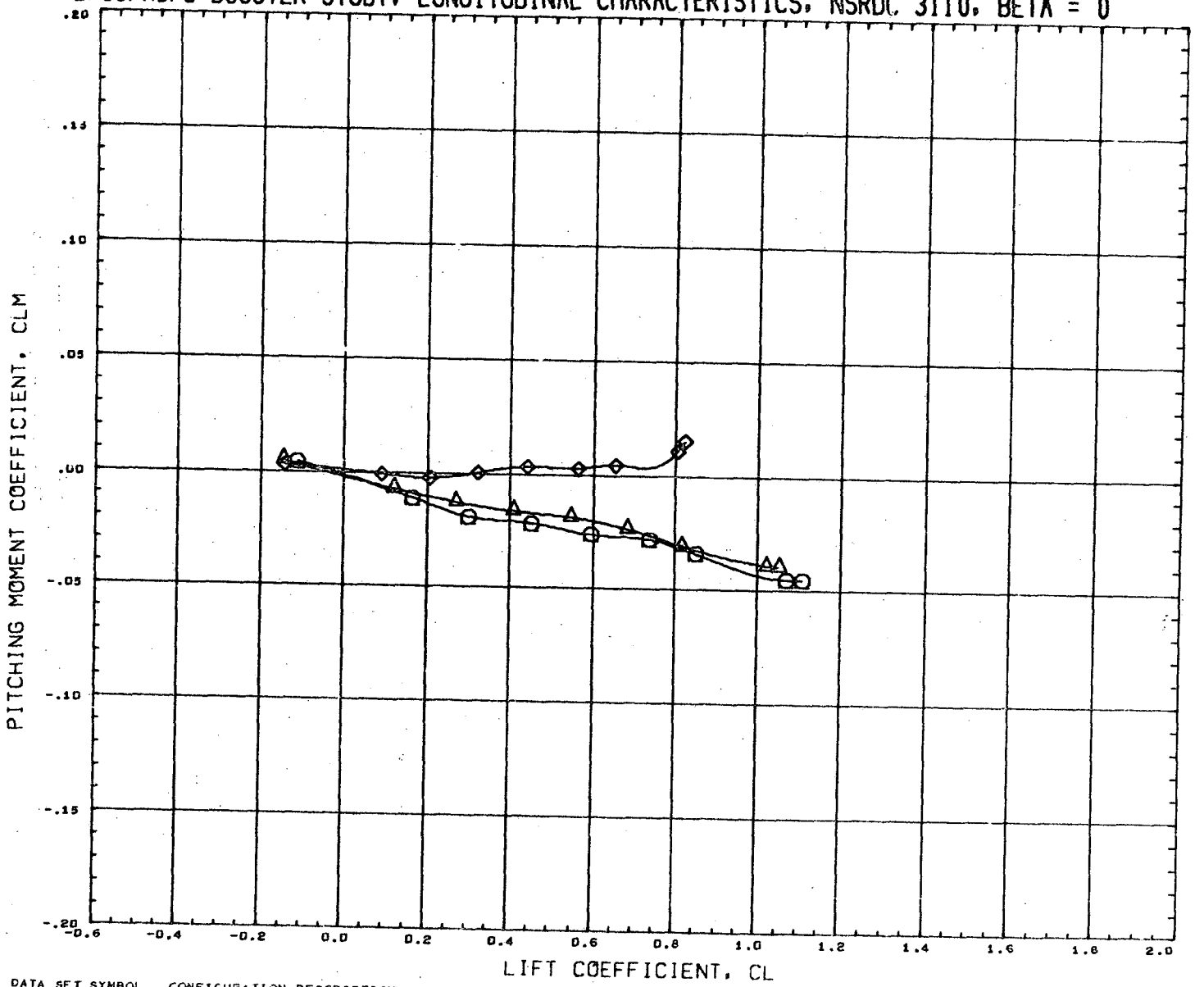
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2057)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2249)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2309)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2057)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2249)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2309)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

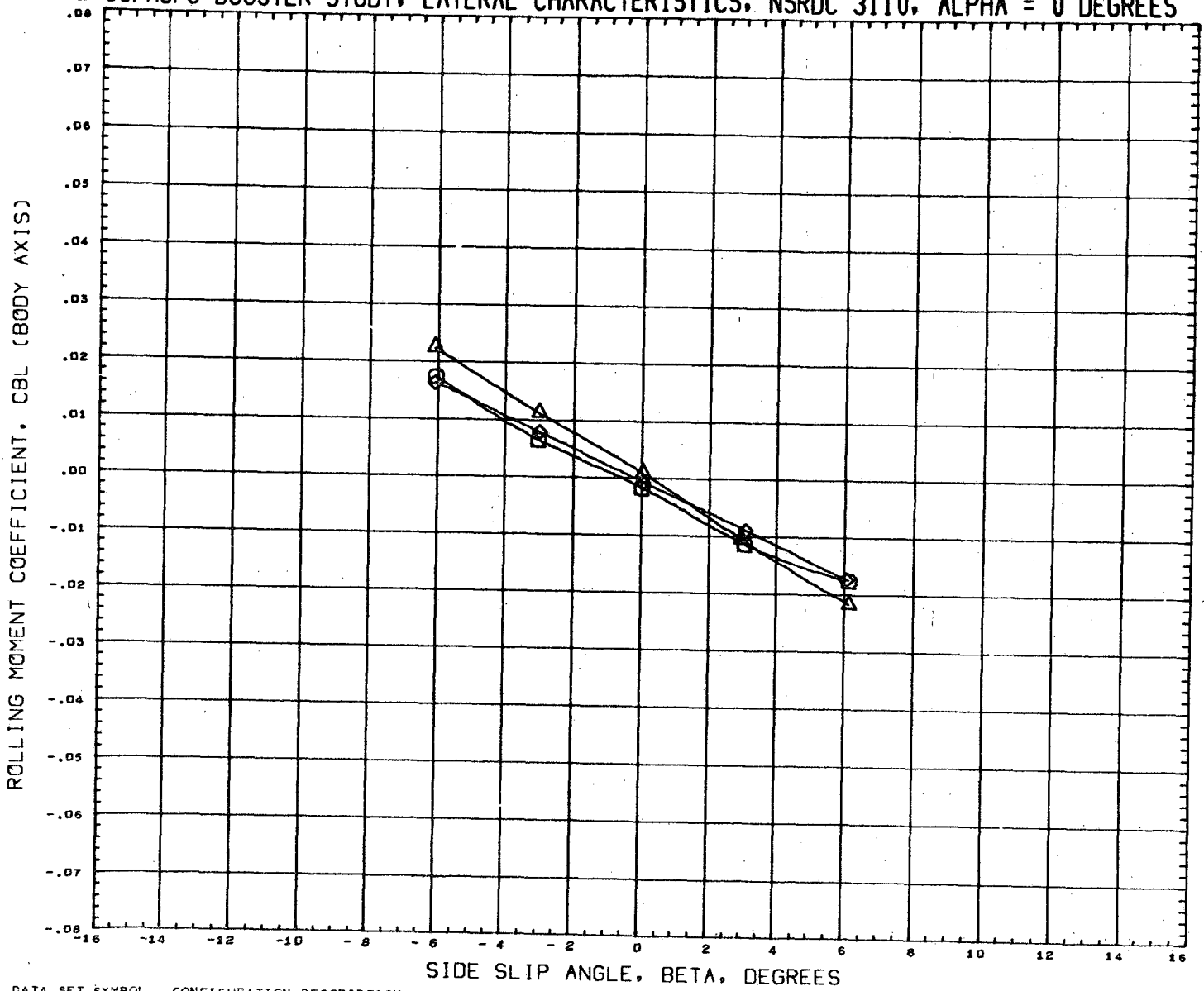
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BØØSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

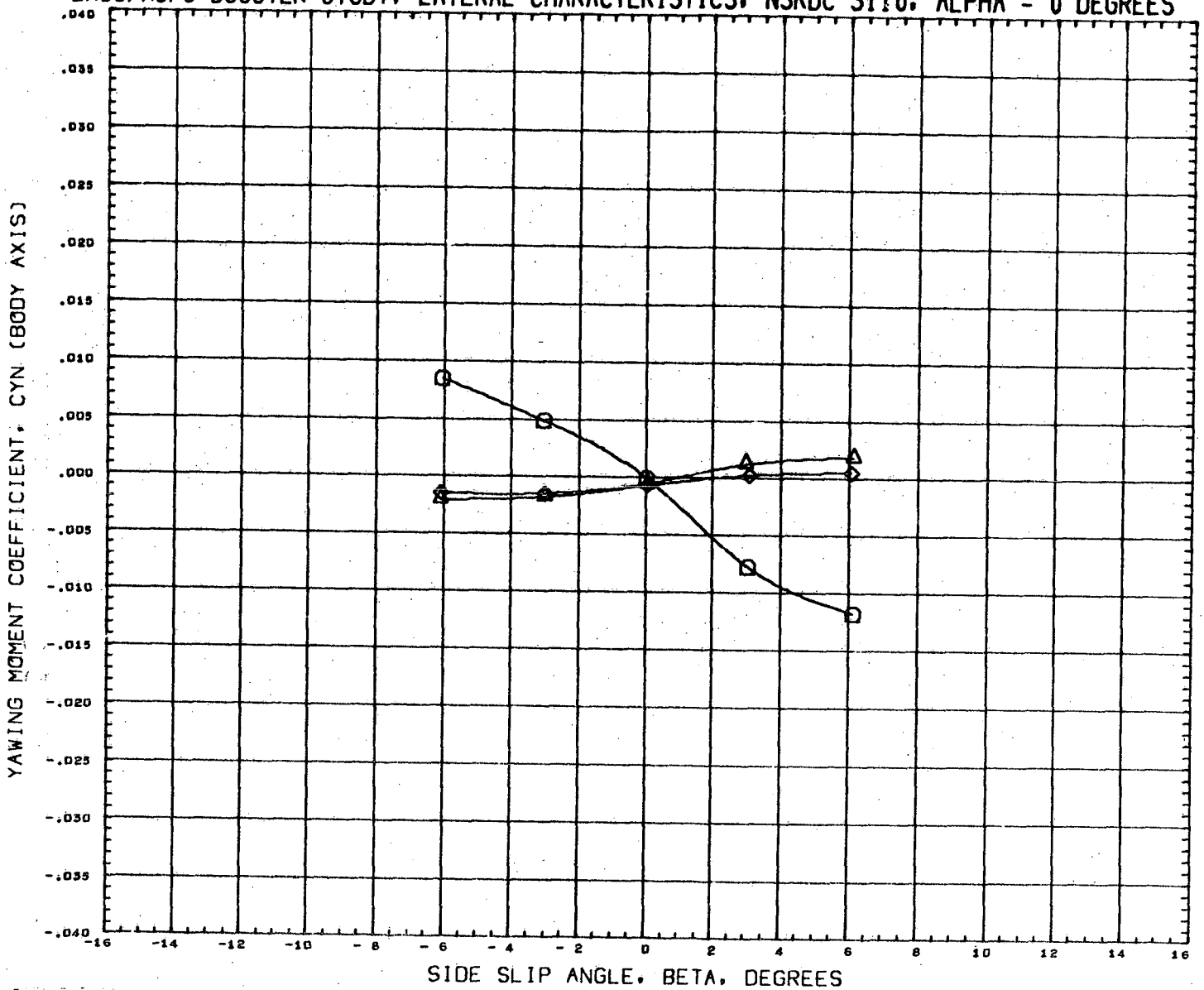


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2058)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	2.000
(RN2250)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000
(RN2310)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

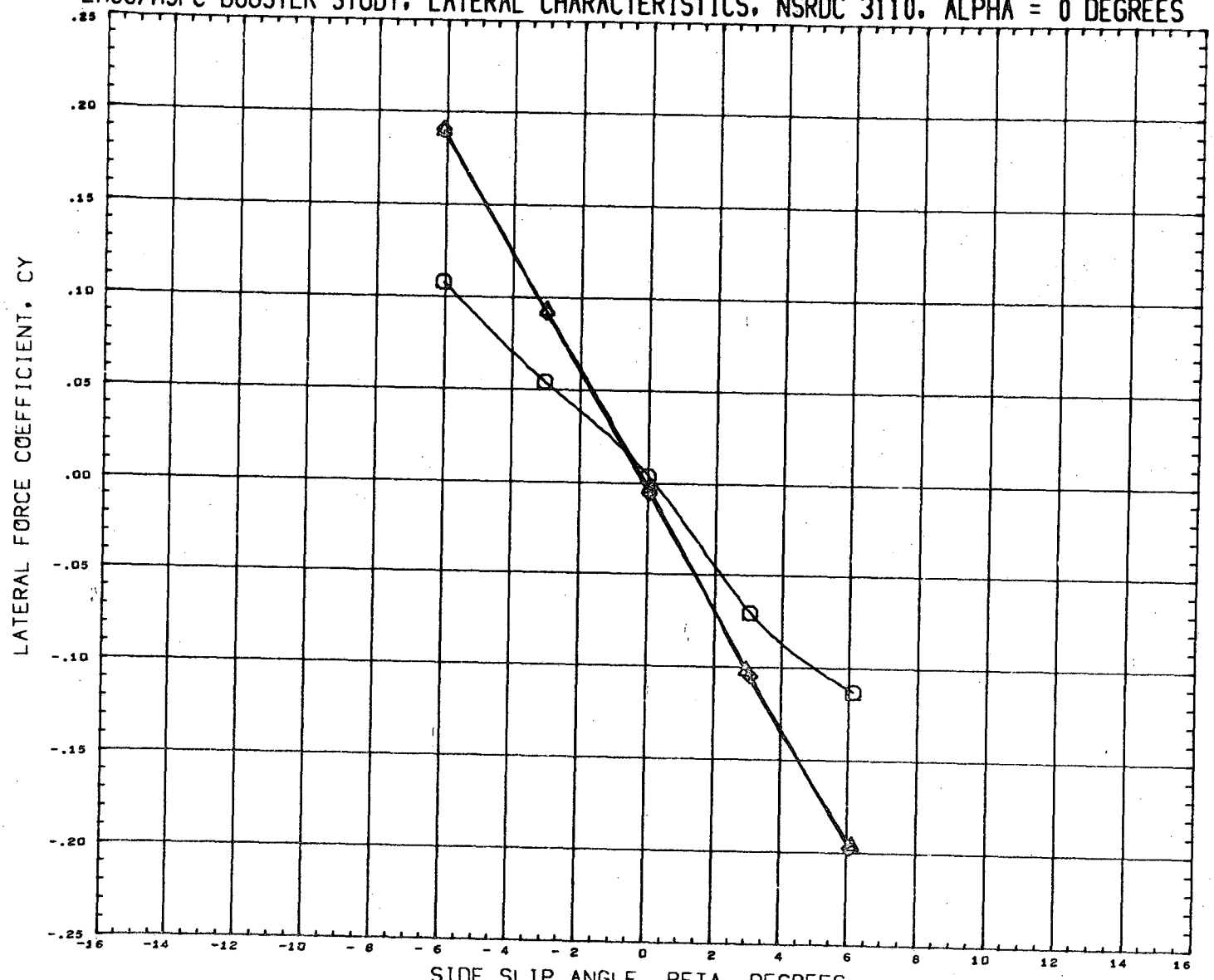


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2058)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	2.000
(RN2250)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000
(RN2510)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

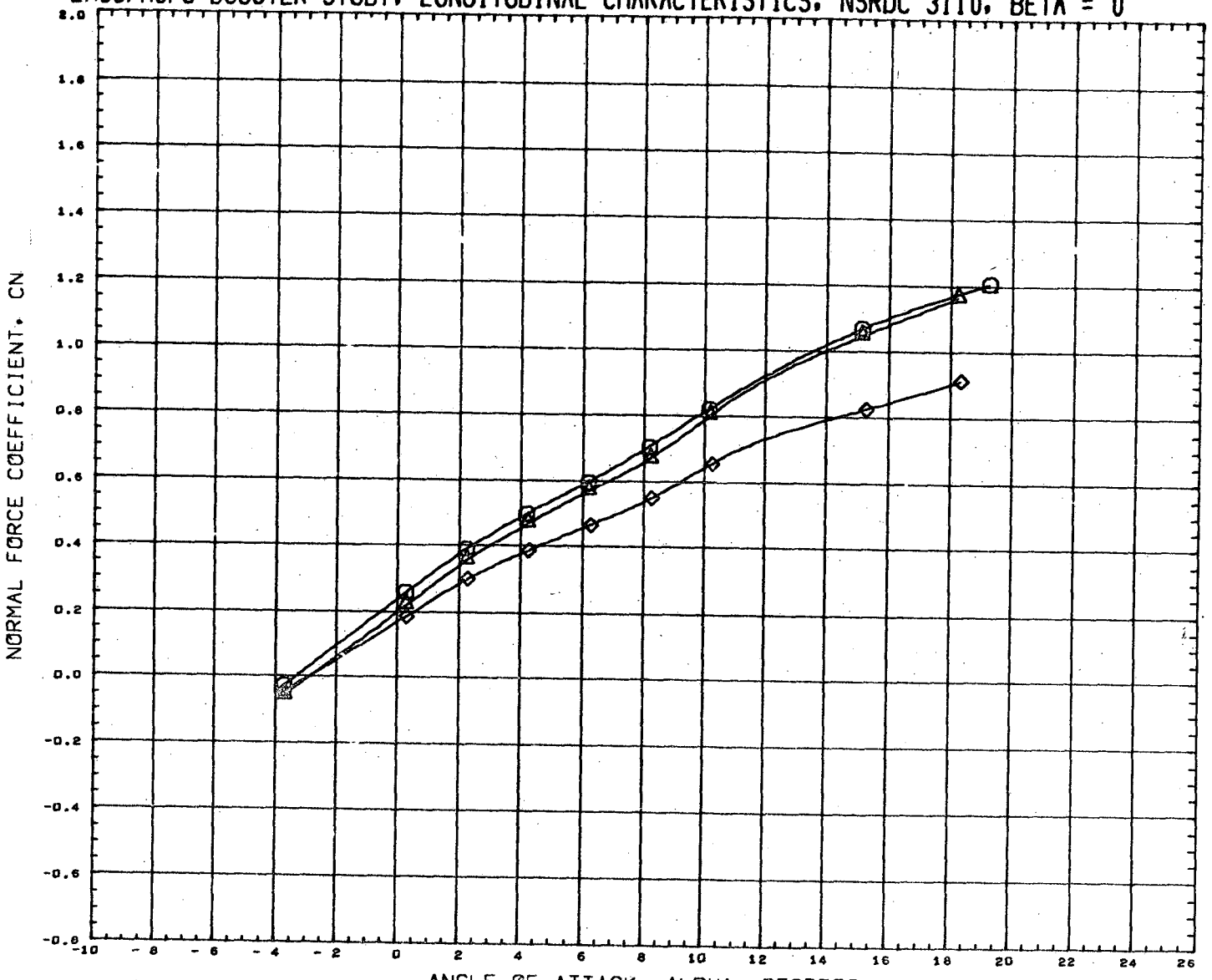


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2058)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	2.000
(RN2250)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000
(RN2310)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

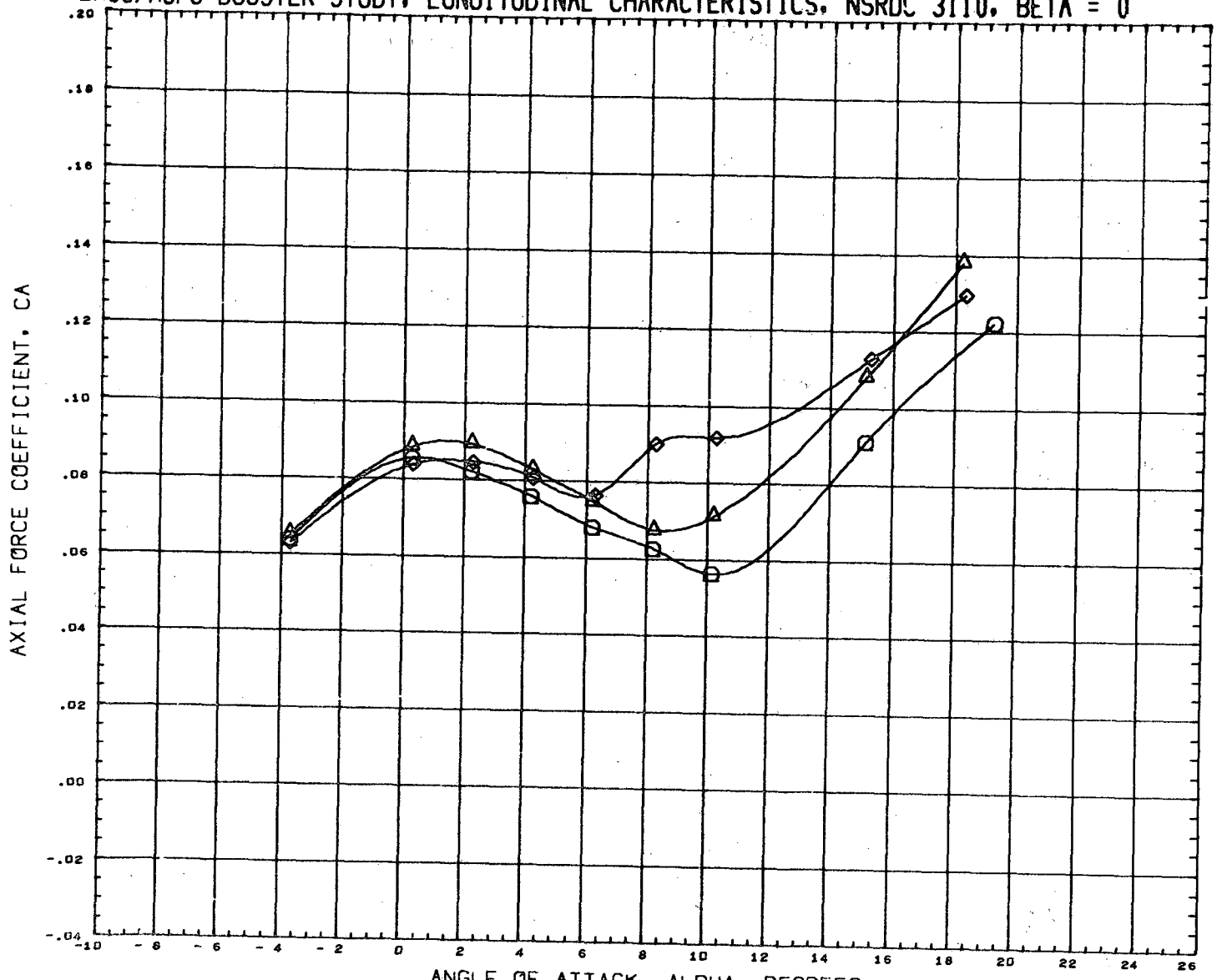


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2061)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000
(RN2253)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000
(RN2313)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.385

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2061)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000
(RN2253)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000
(RN2313)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.385

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2061)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2253)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2313)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

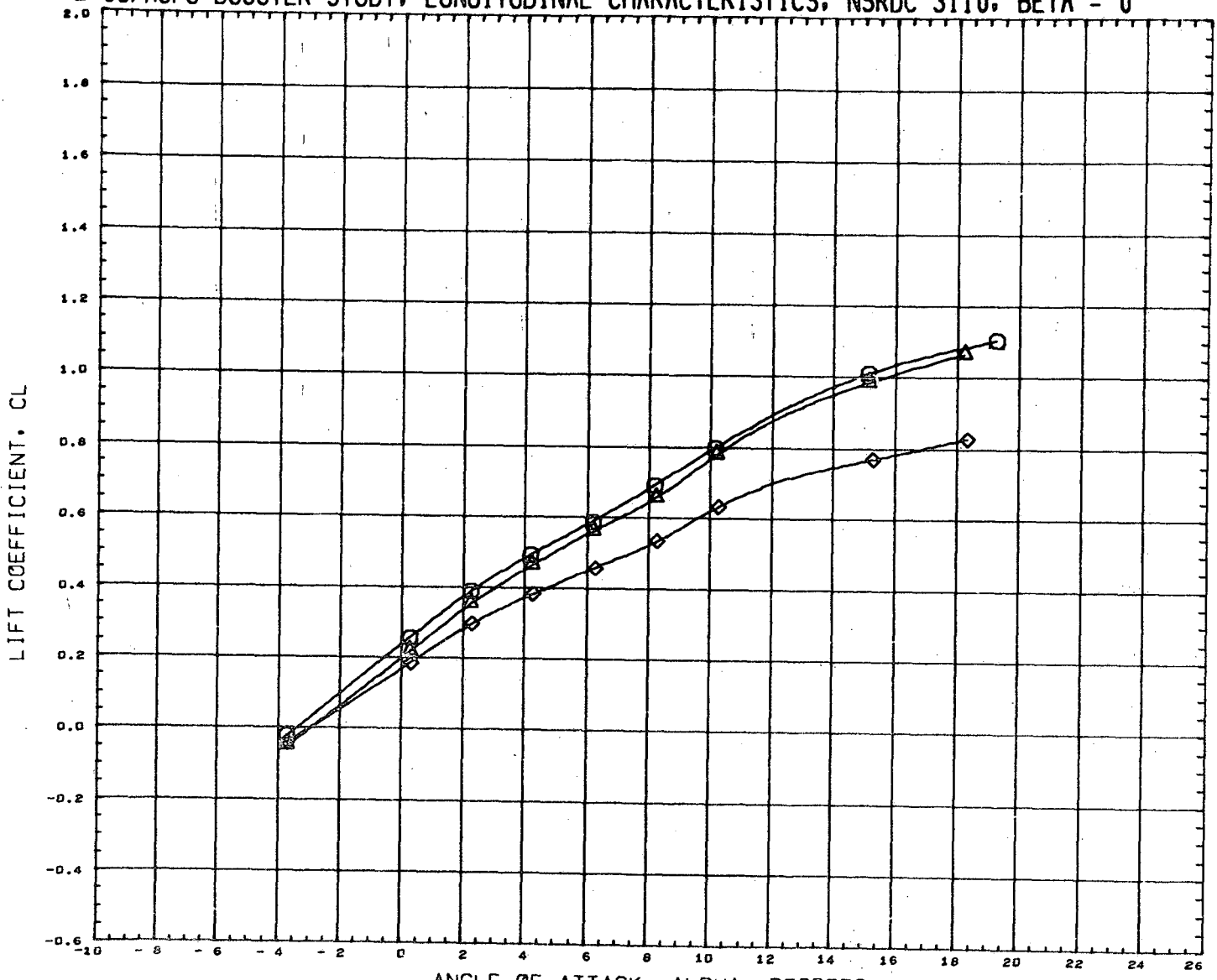
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	2.000
15.000	2.000	3.000	2.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.385

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

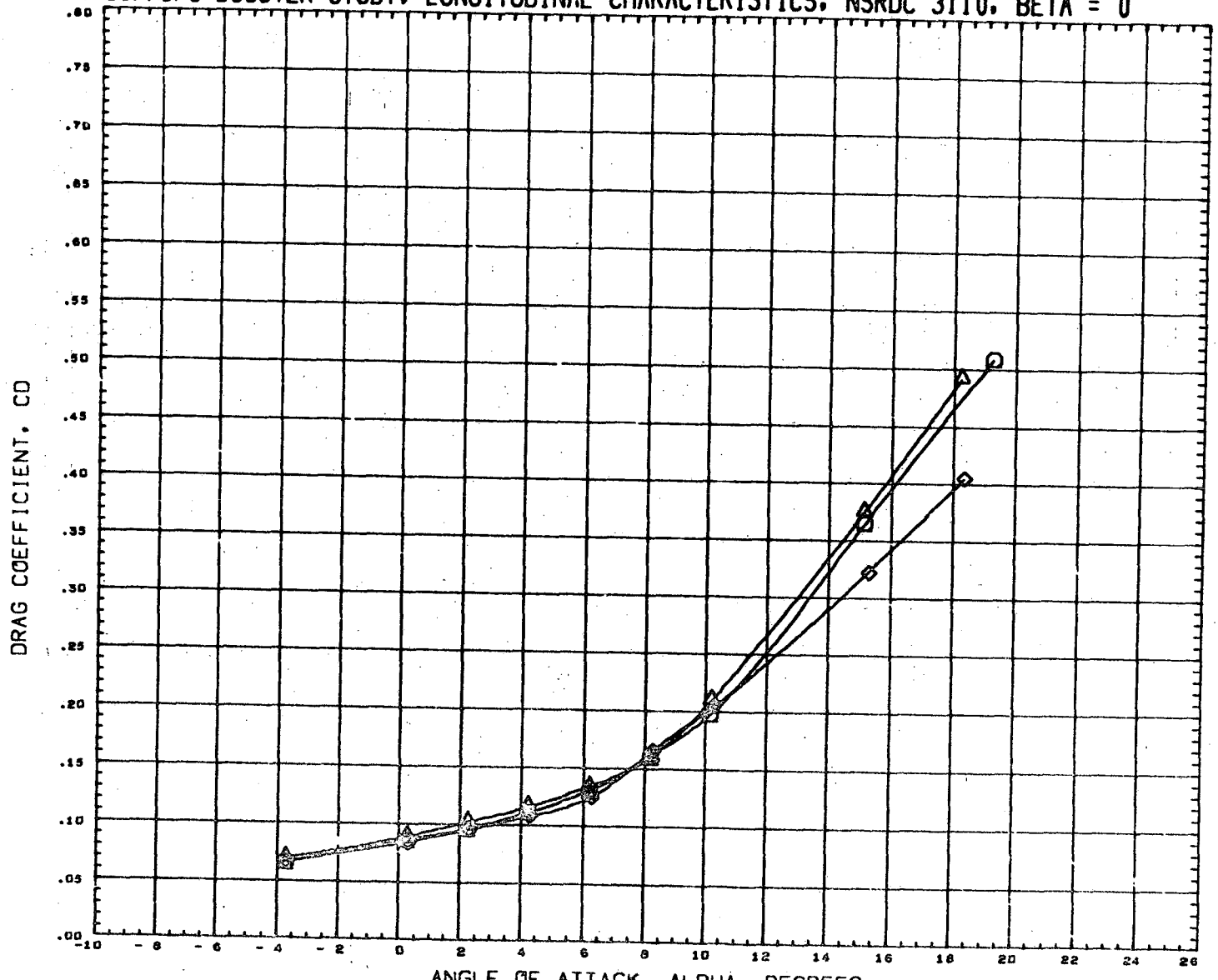


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2061) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000
(RN2253) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000
(RN2313) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.385

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY. LONGITUDINAL CHARACTERISTICS. NSRDC 3110. BETA = 0

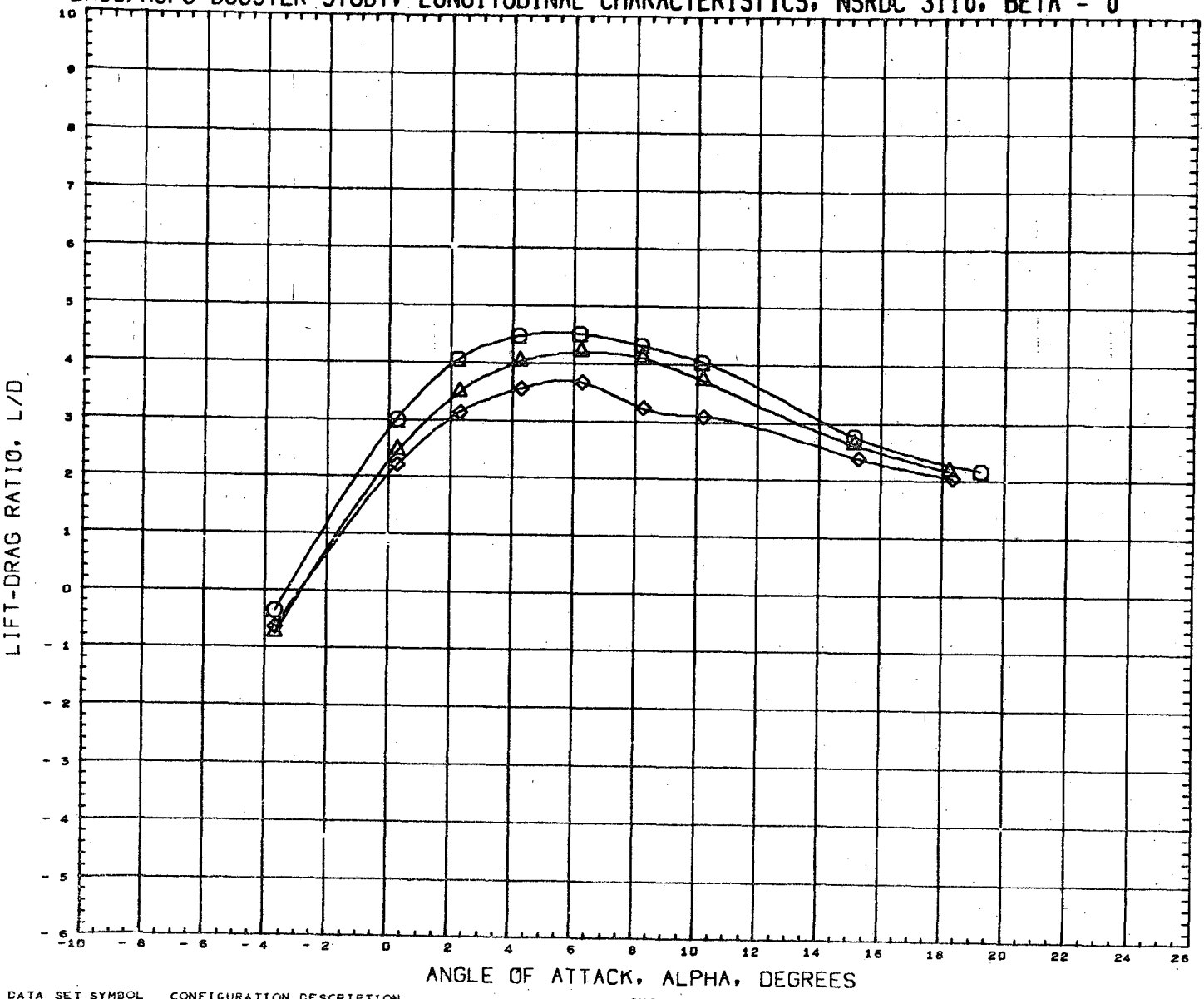


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2061)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000
(RN2253)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000
(RN2313)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.385

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRF	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

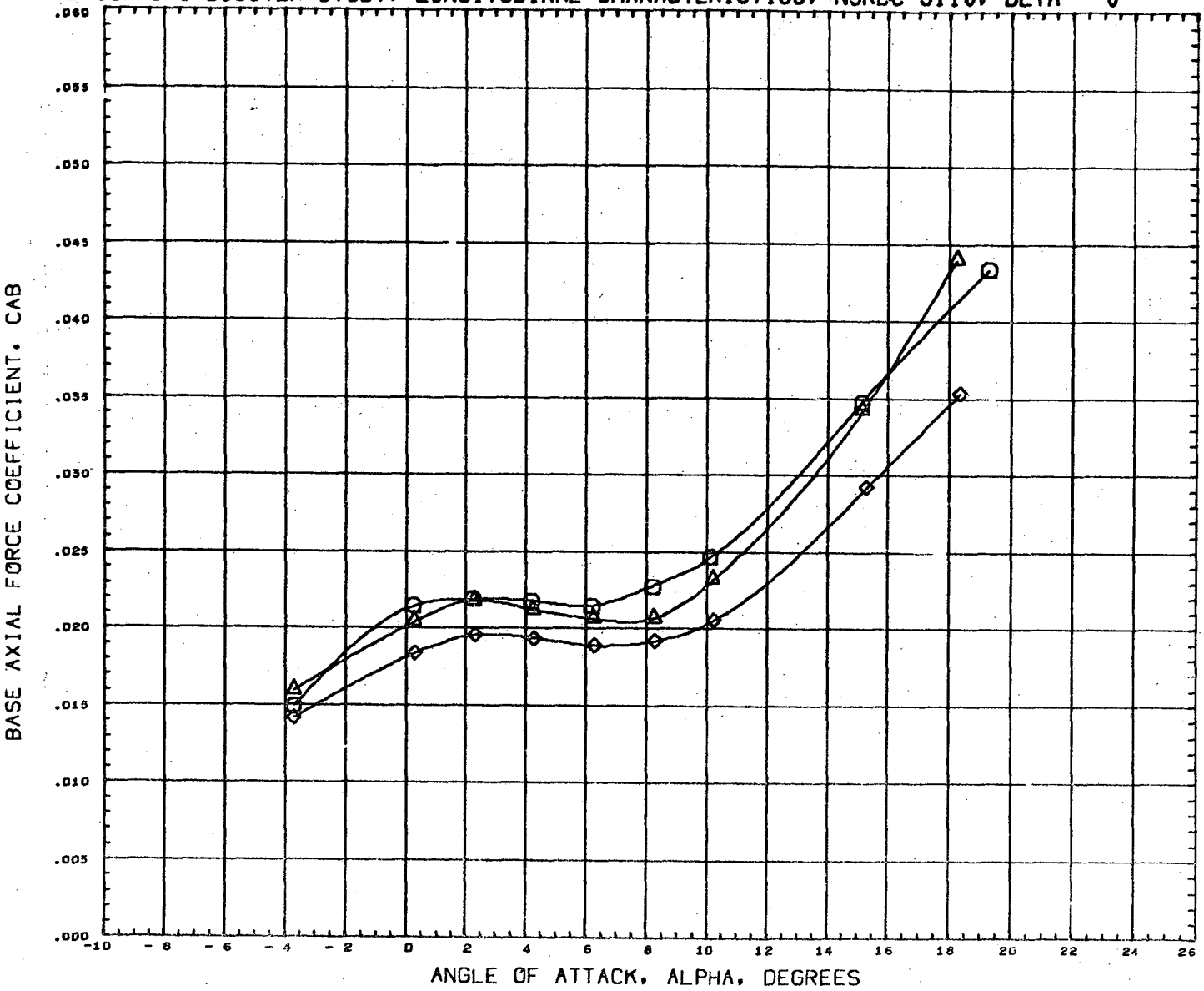


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2061)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000
(RN2253)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000
(RN2313)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.385

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

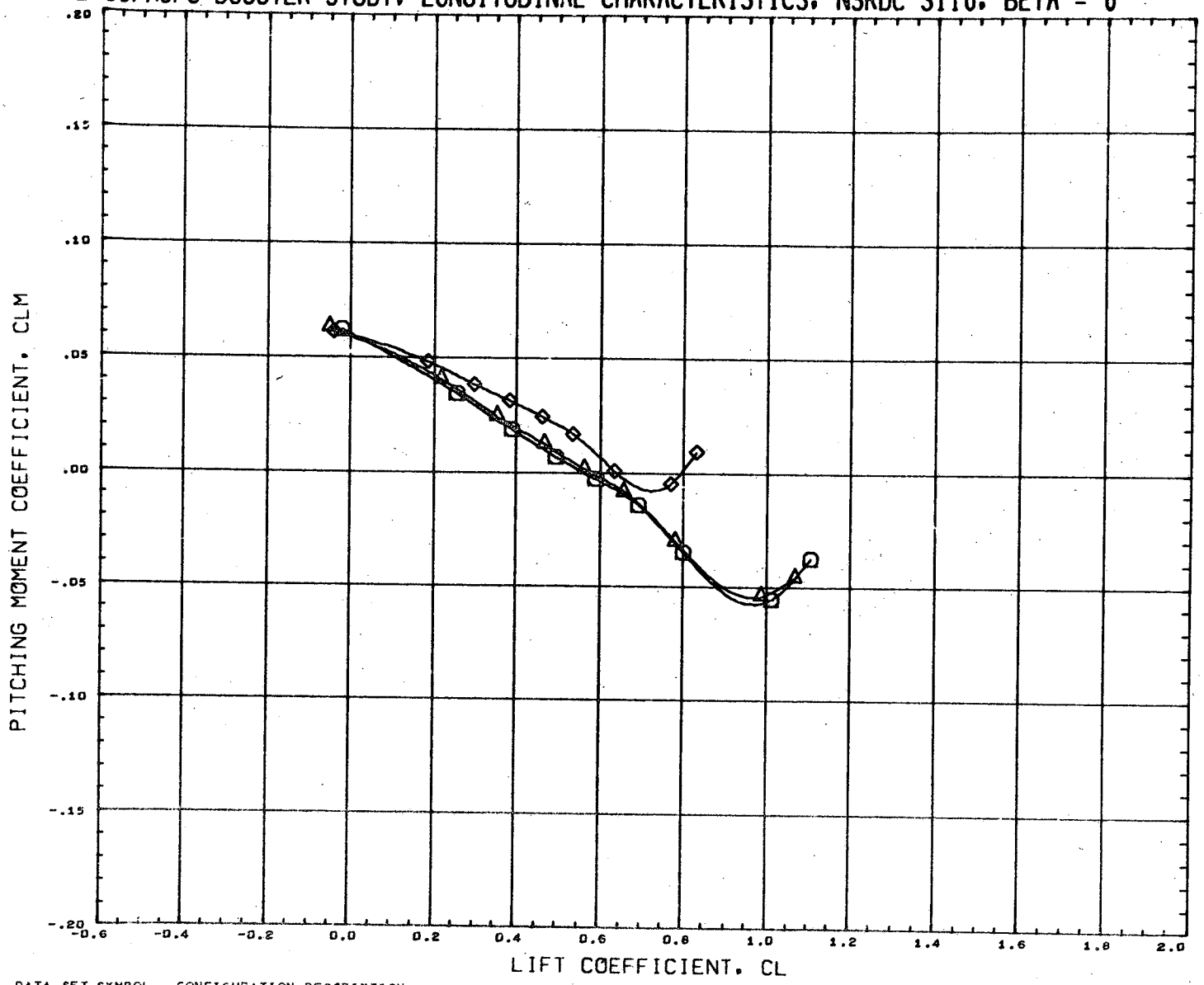


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2061) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000
(RN2253) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000
(RN2313) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.385

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

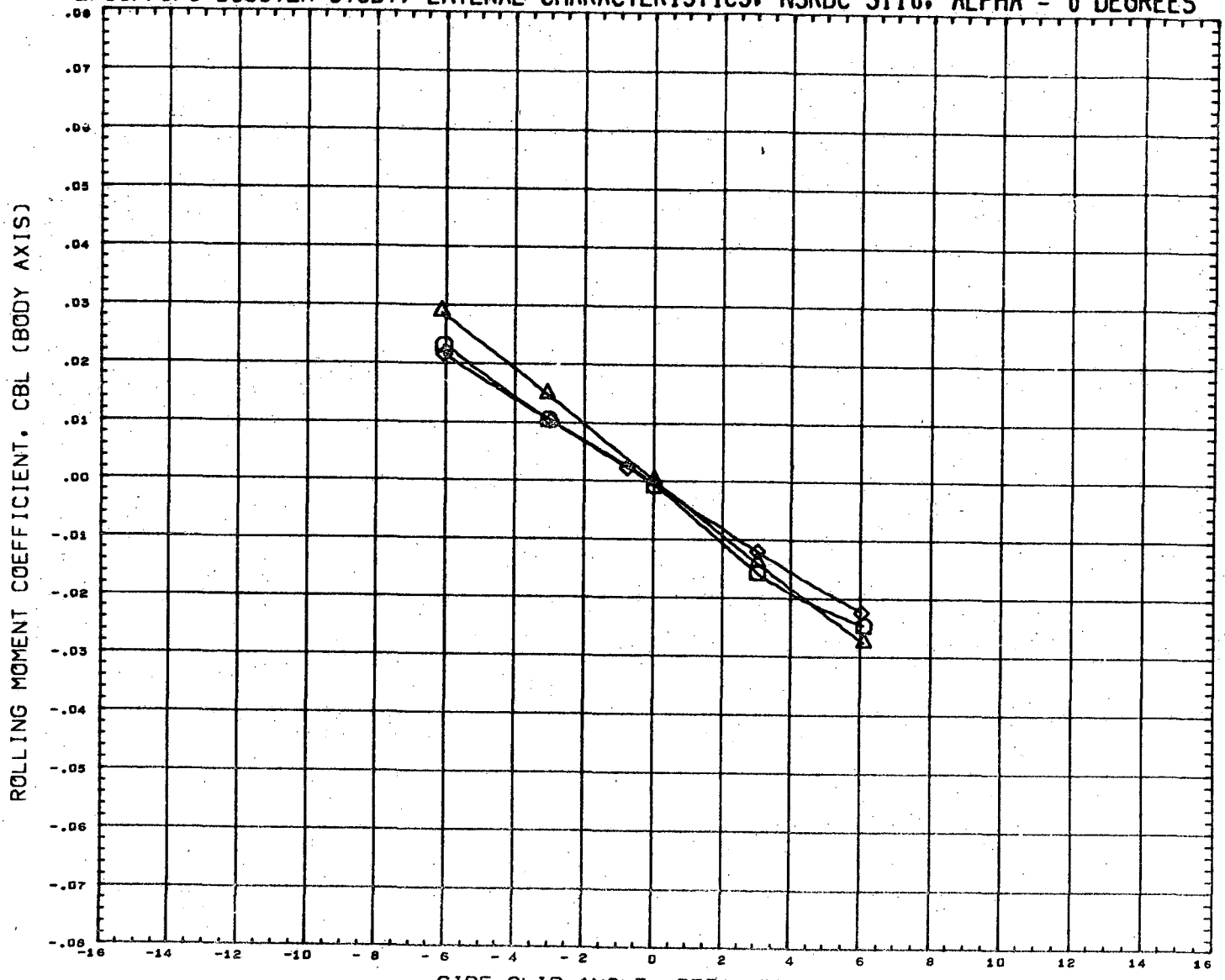


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2061)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000
(RN2253)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000
(RN2313)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.385

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

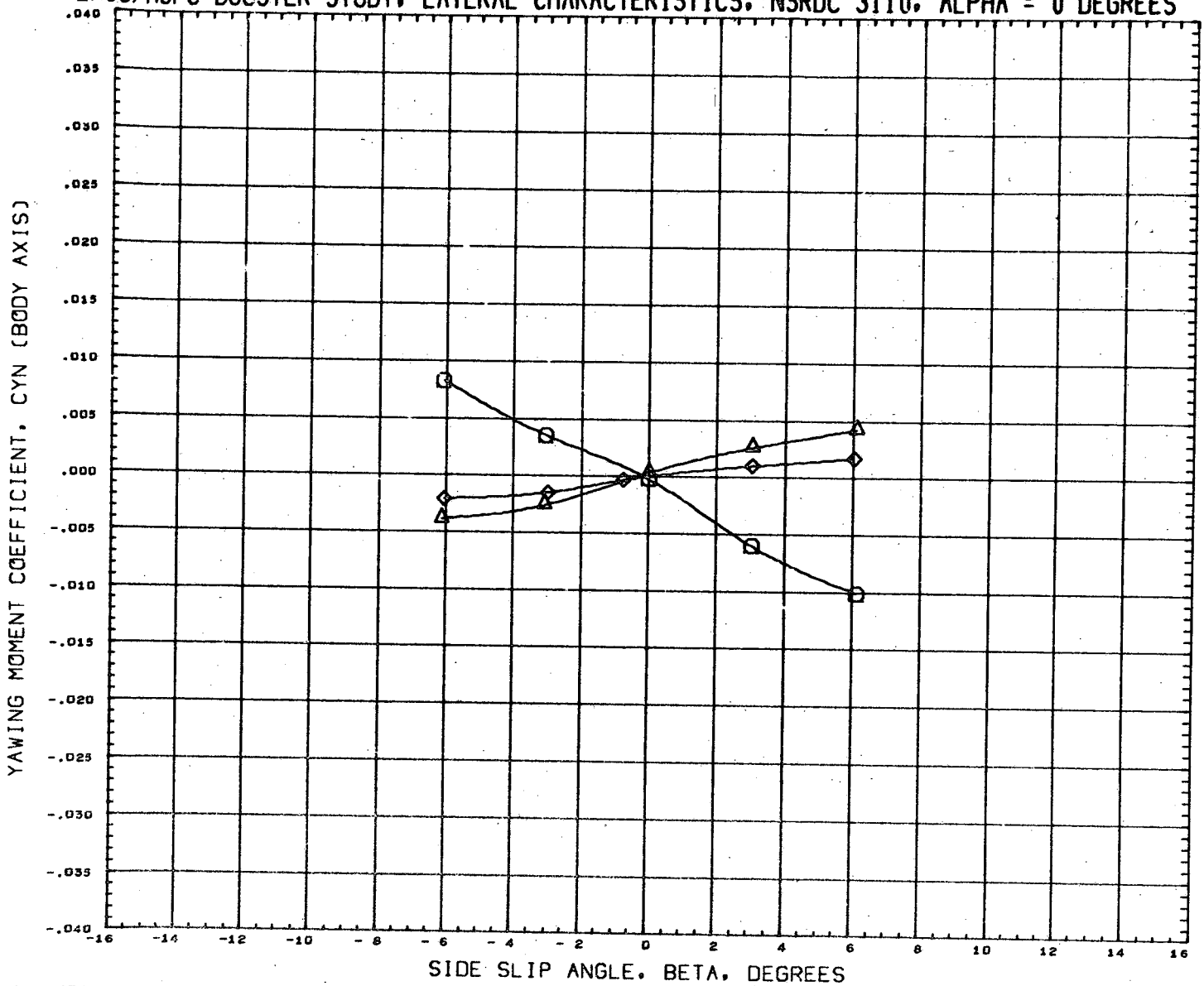


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2062)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000
(RN2254)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000
(RN2314)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

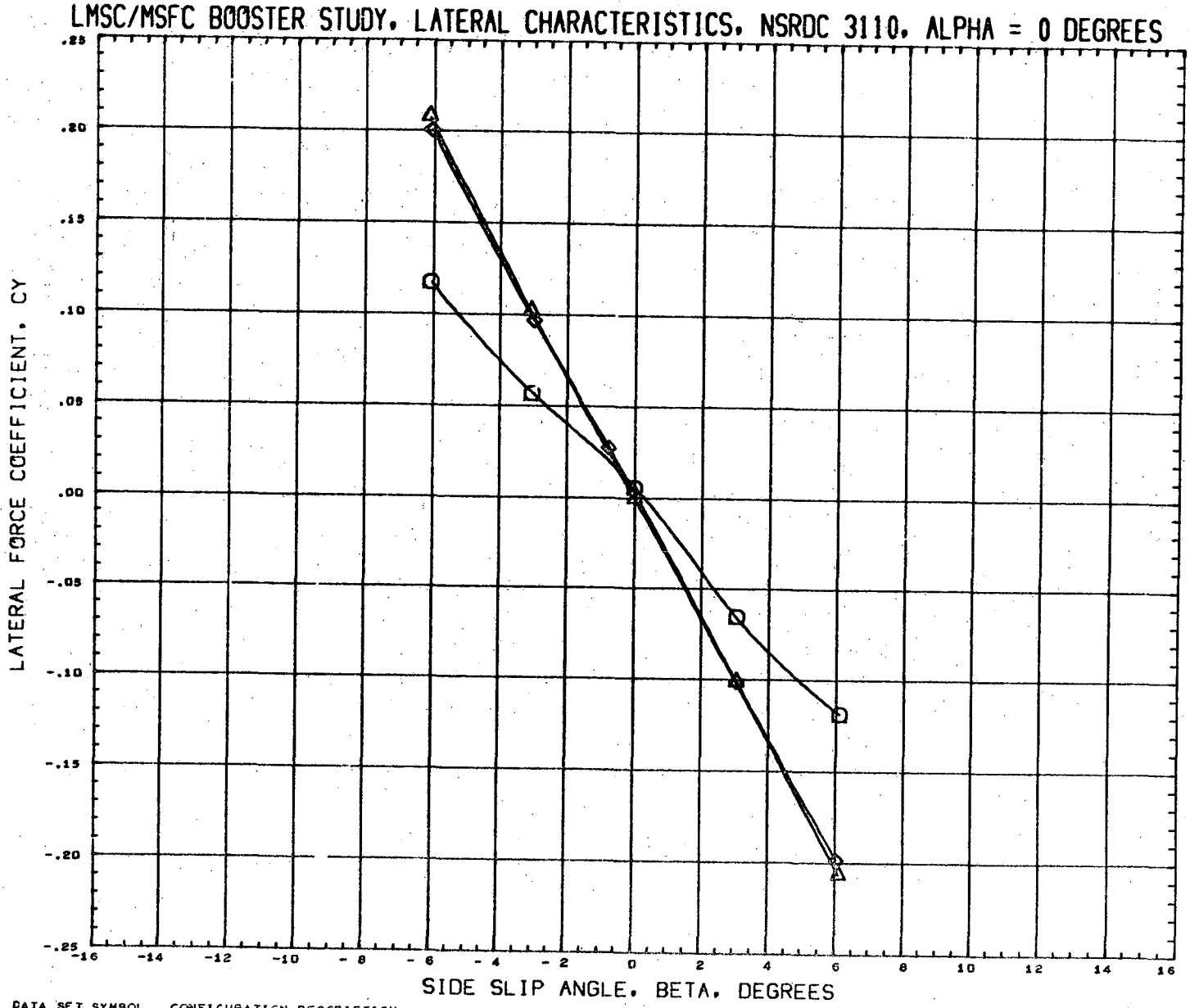
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2062)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000
(RN2254)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000
(RN2314)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

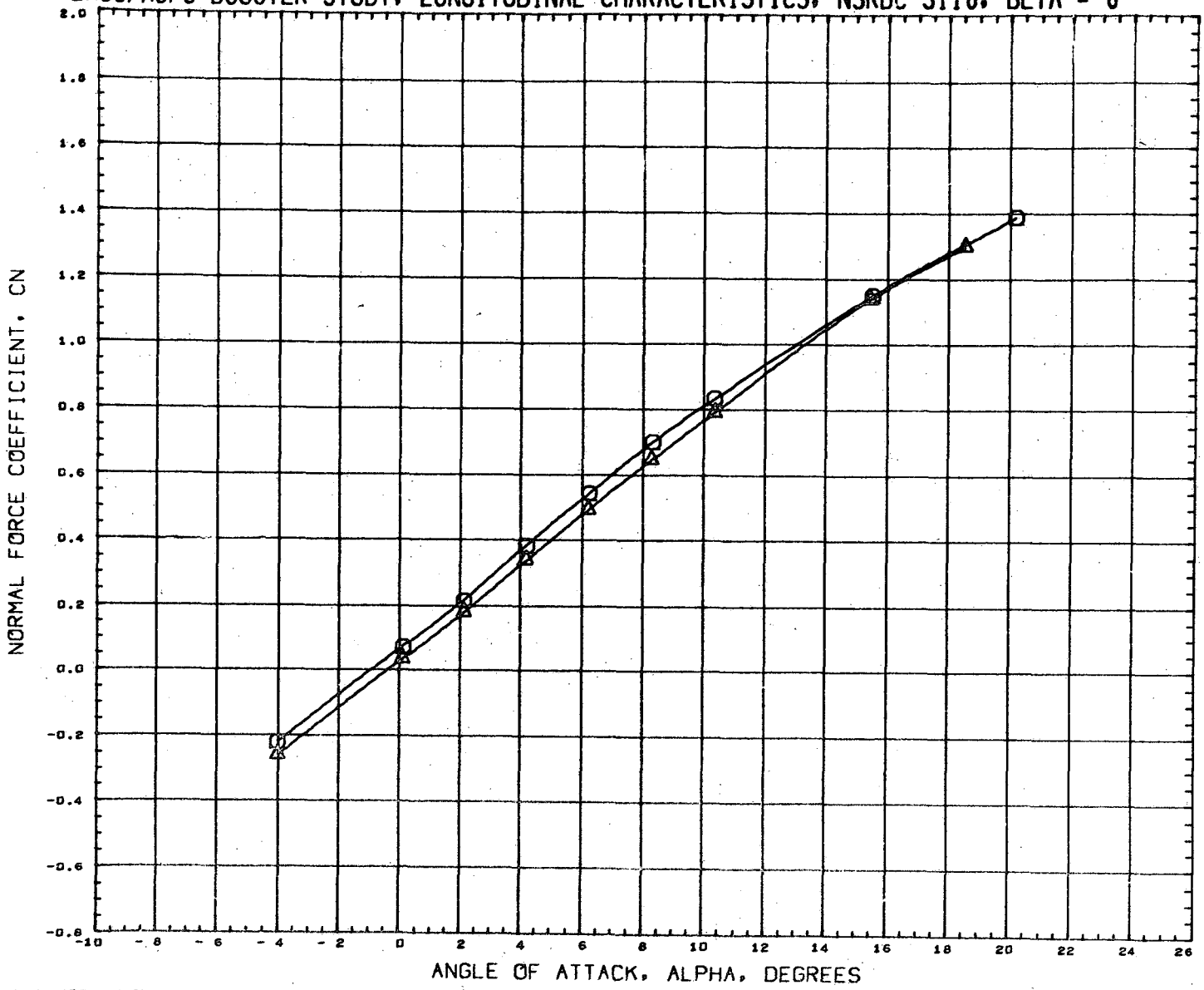


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2062)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000
(RN2254)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000
(RN2314)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

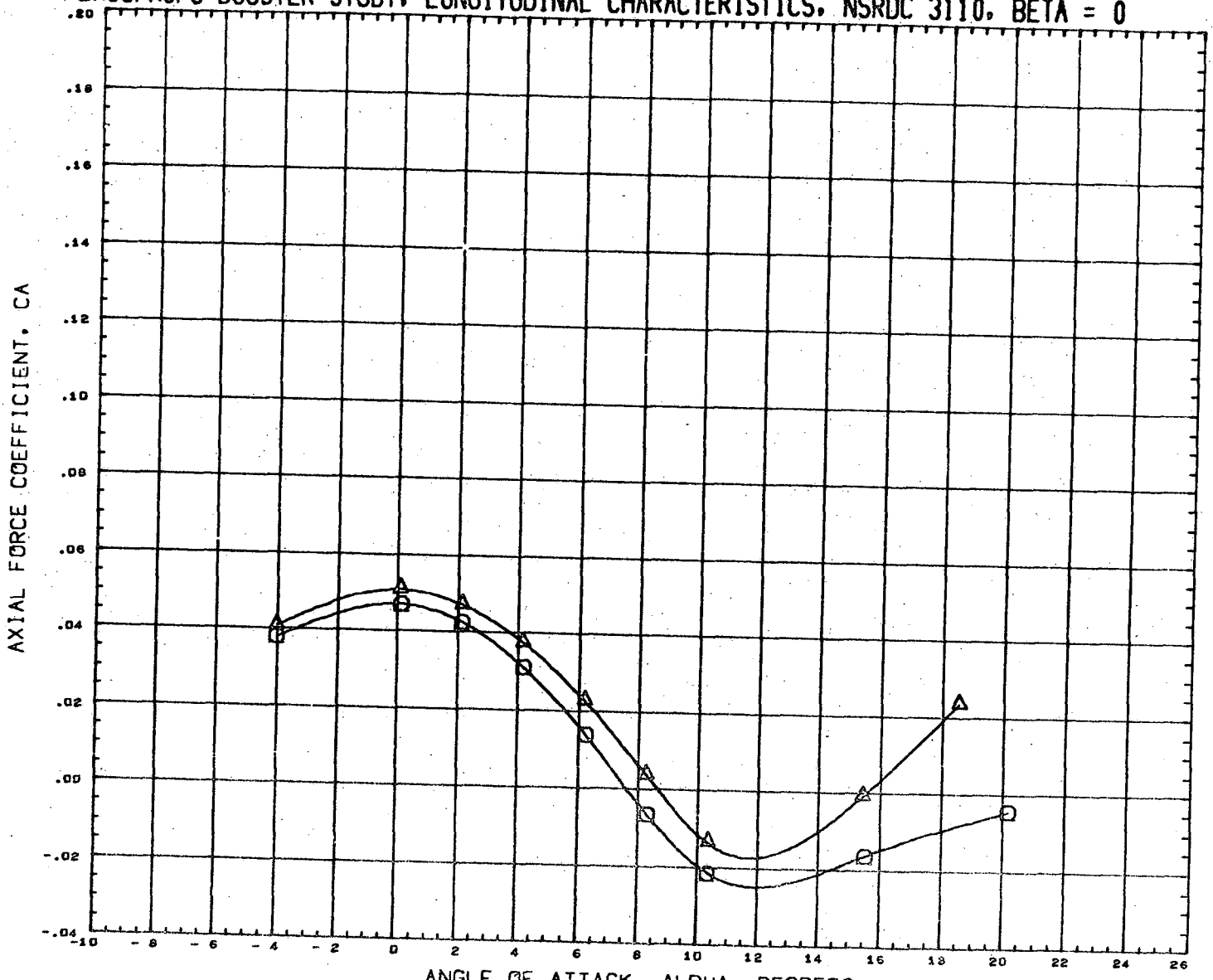


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2065) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2129) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

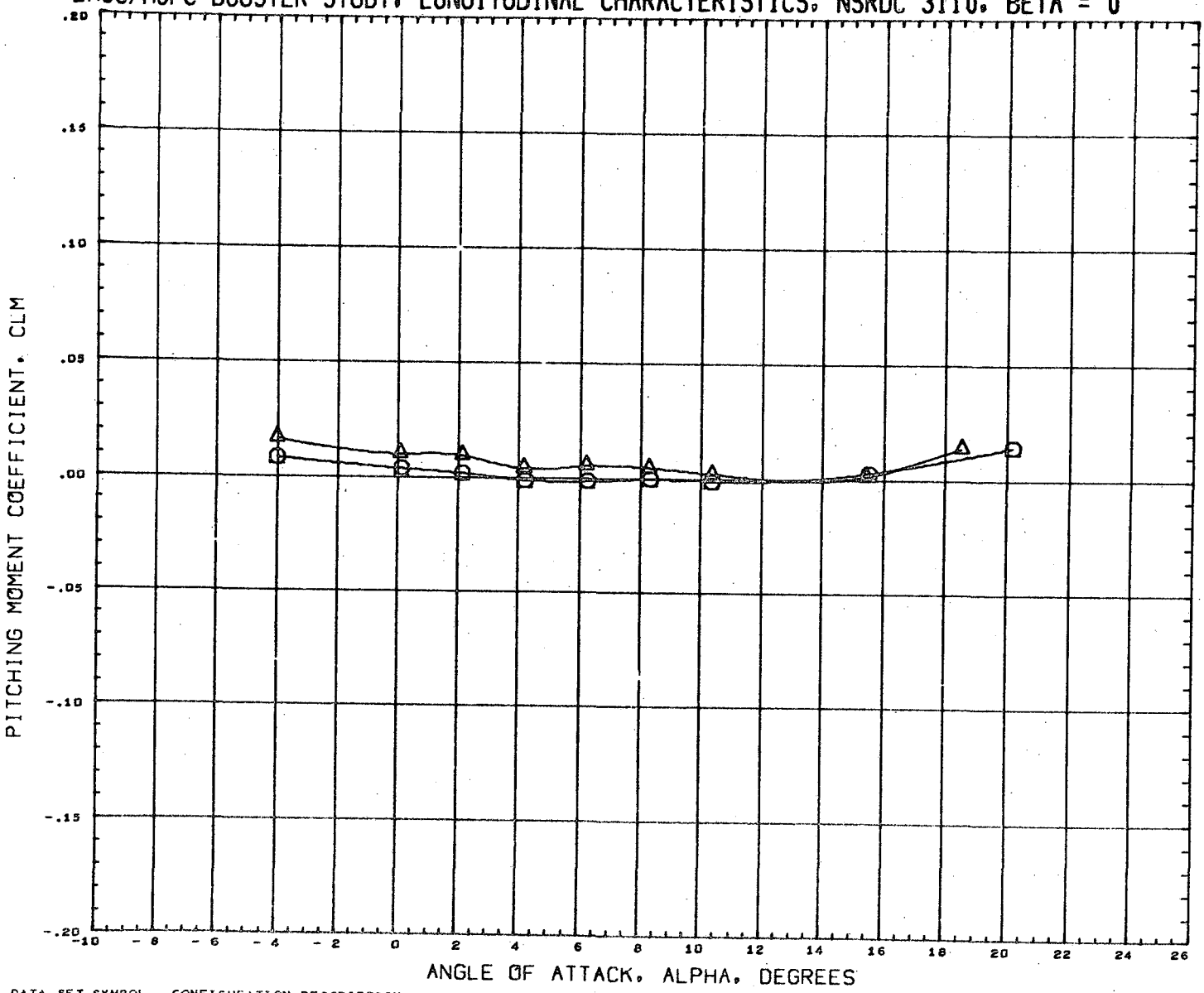


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2065)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2129)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRF	31.1400	INCHES
YMRF	0.0000	INCHES
ZMRF	0.2250	INCHES
SCALE	1.5000	PERCNT

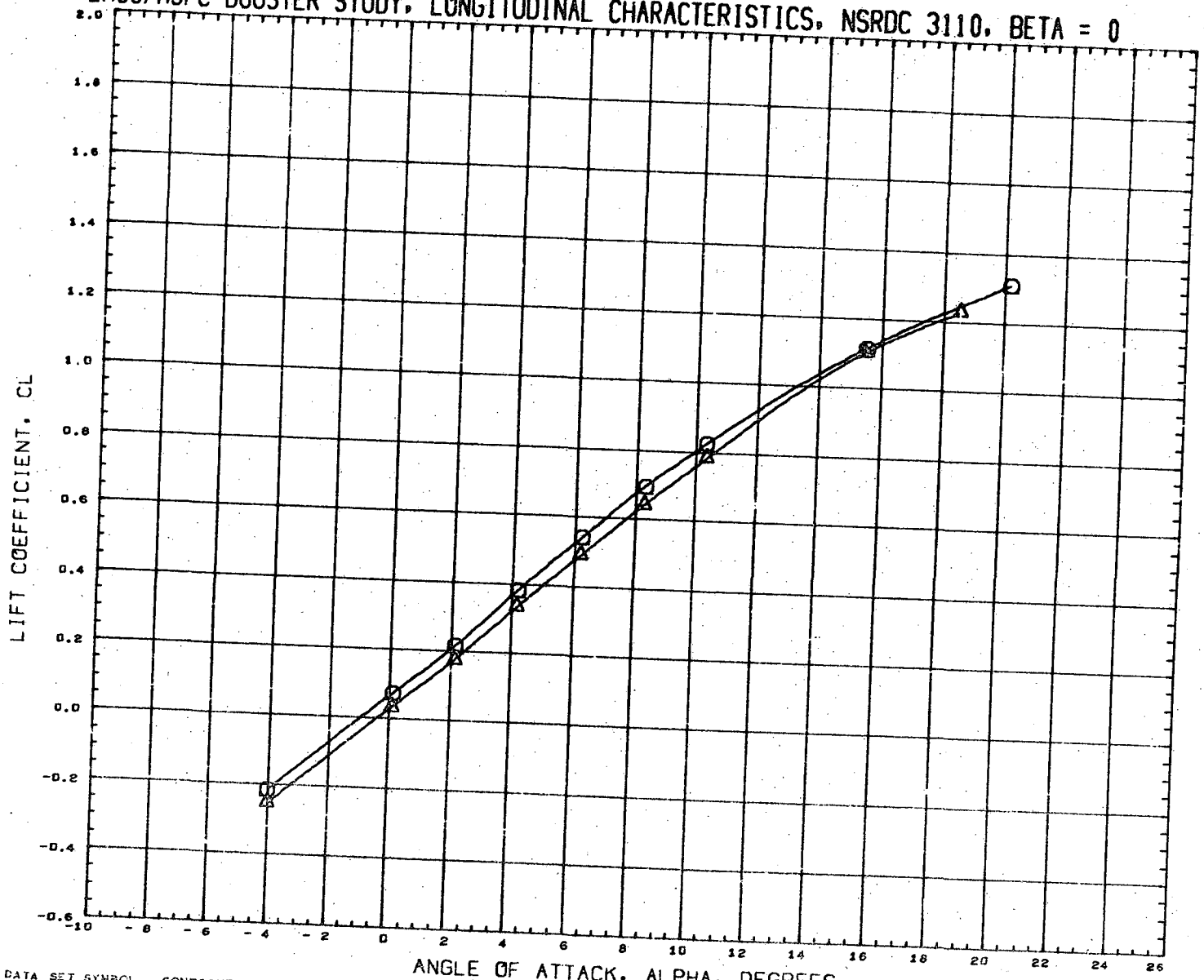
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2065)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2129)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2065)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2129)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

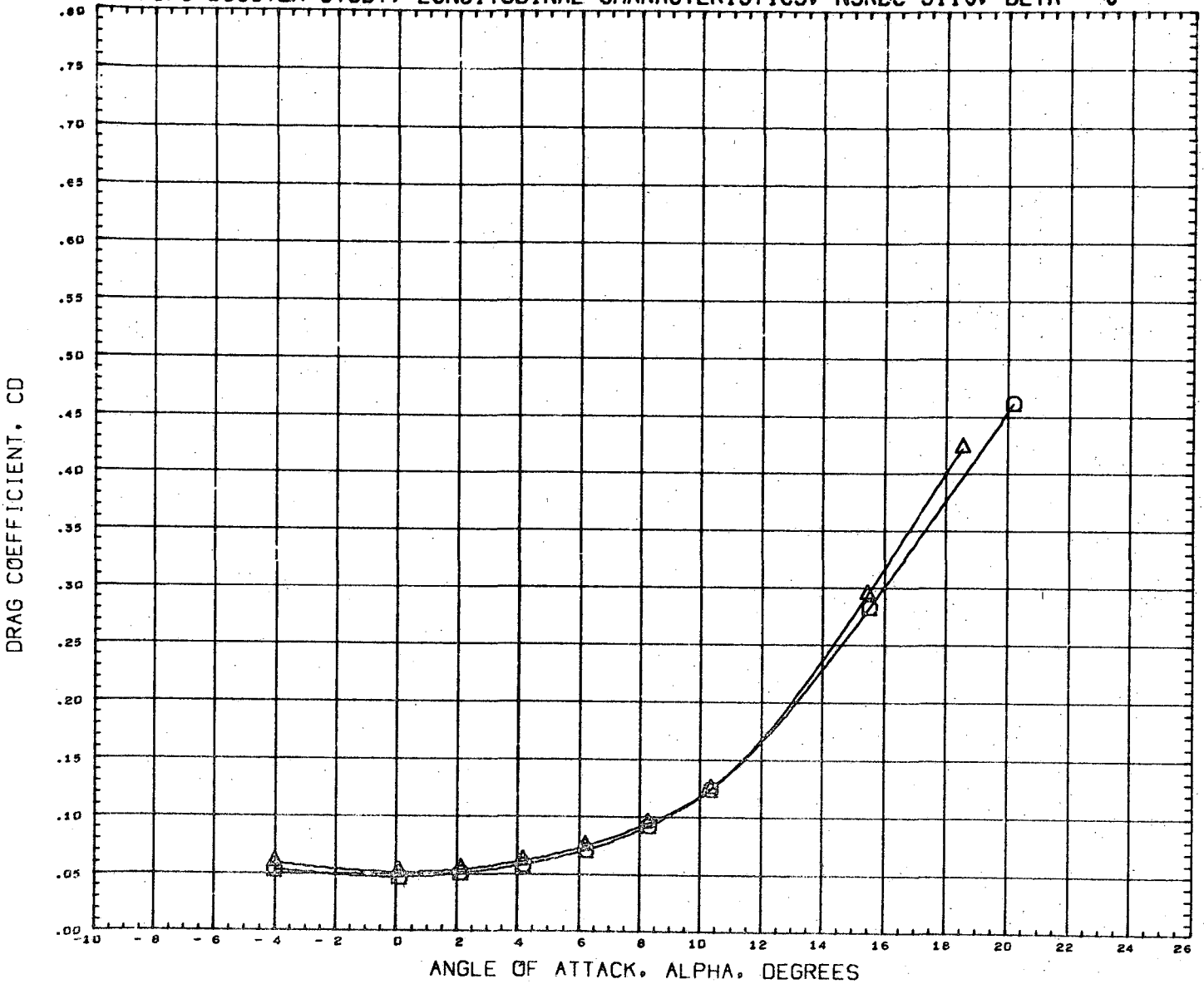
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

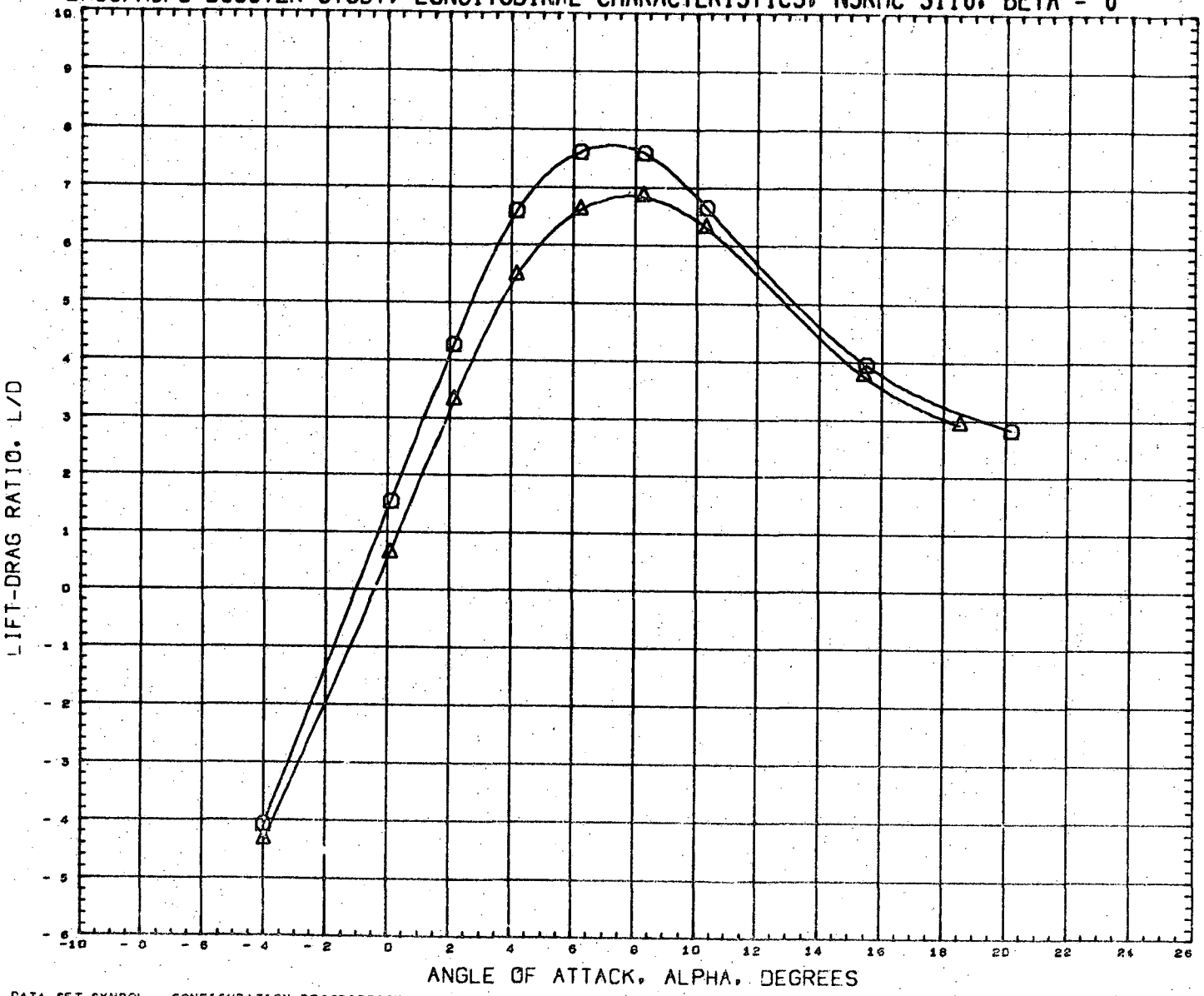


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2065)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2129)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

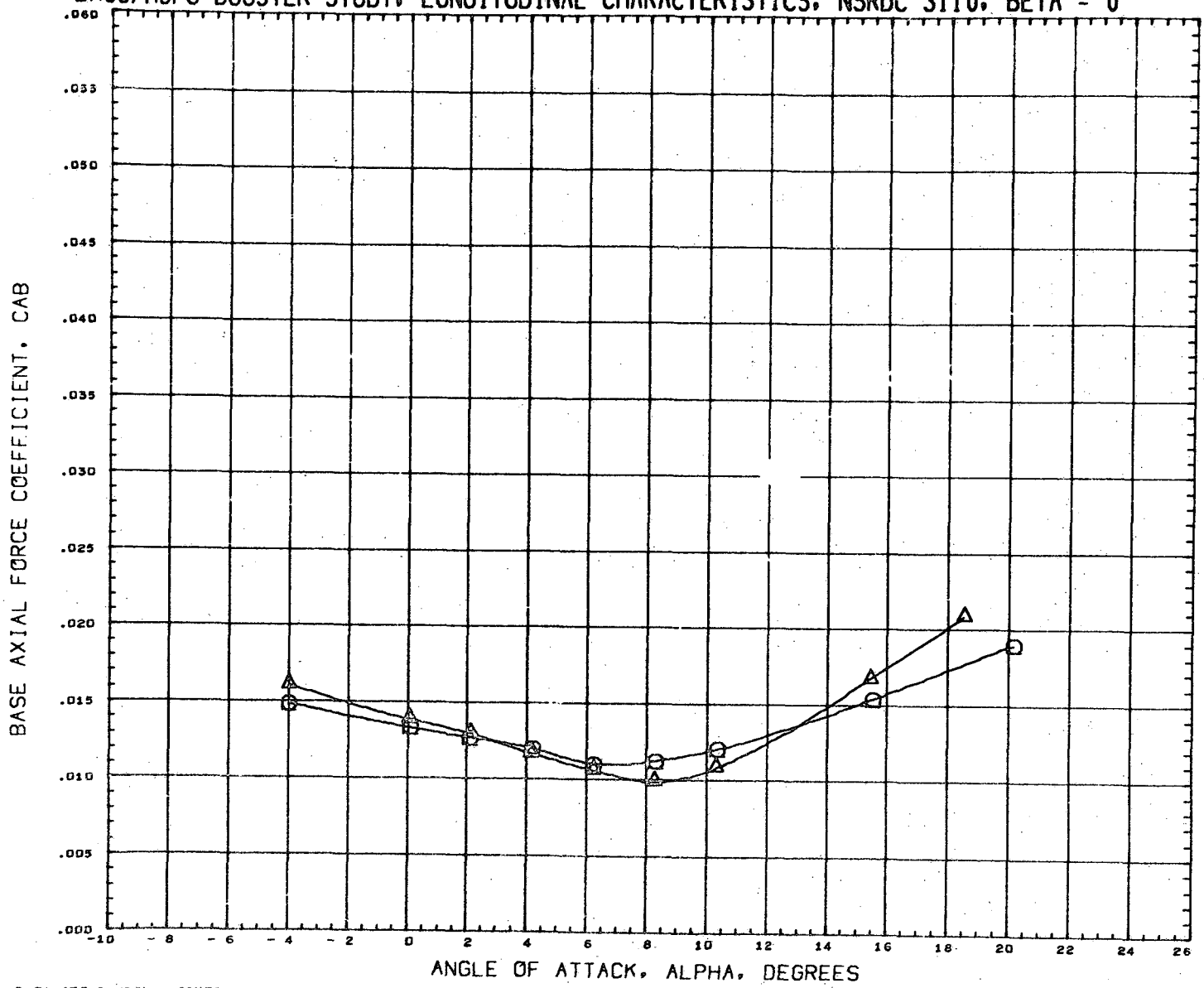


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2065)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2129)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

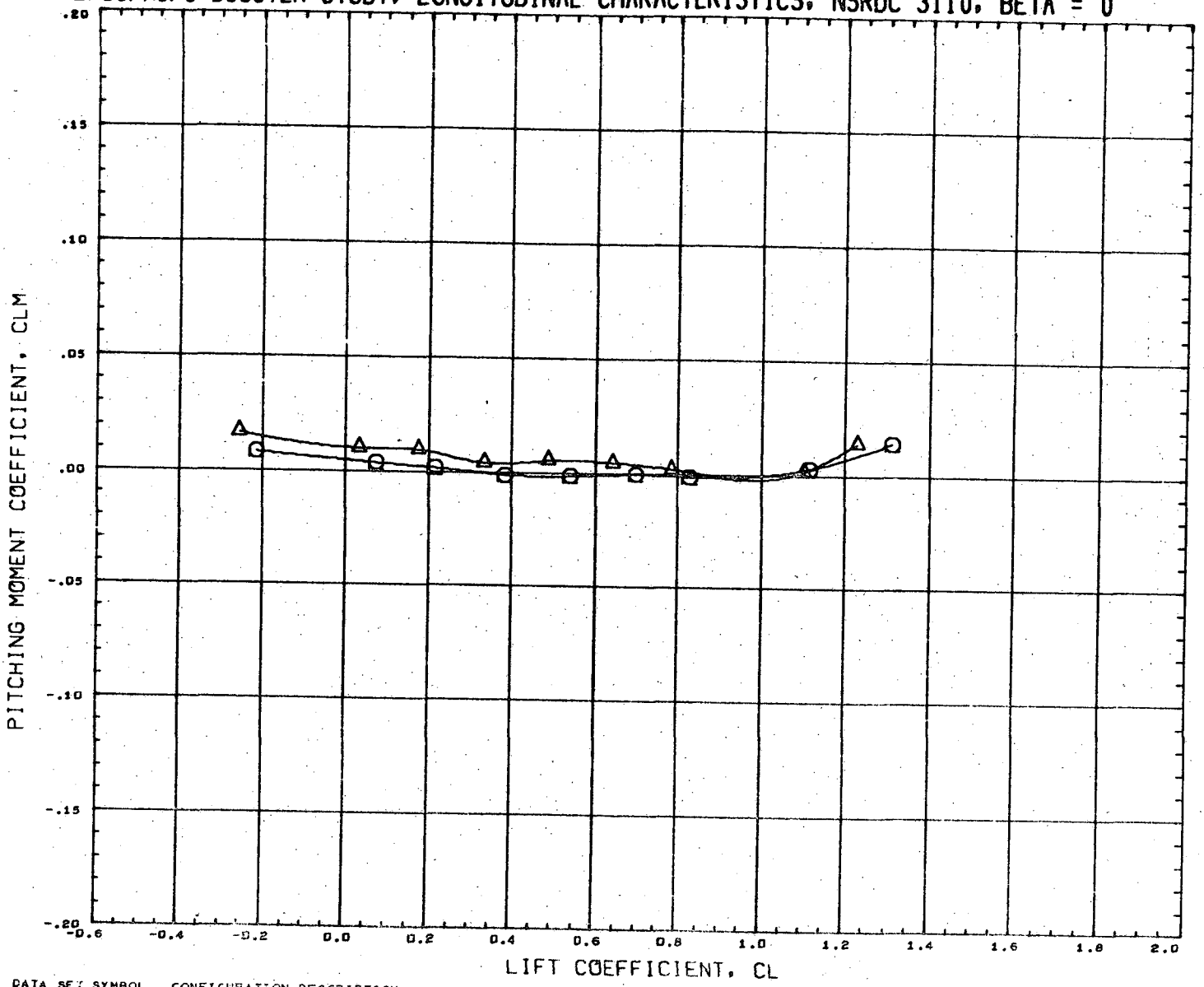


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2065) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2129) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

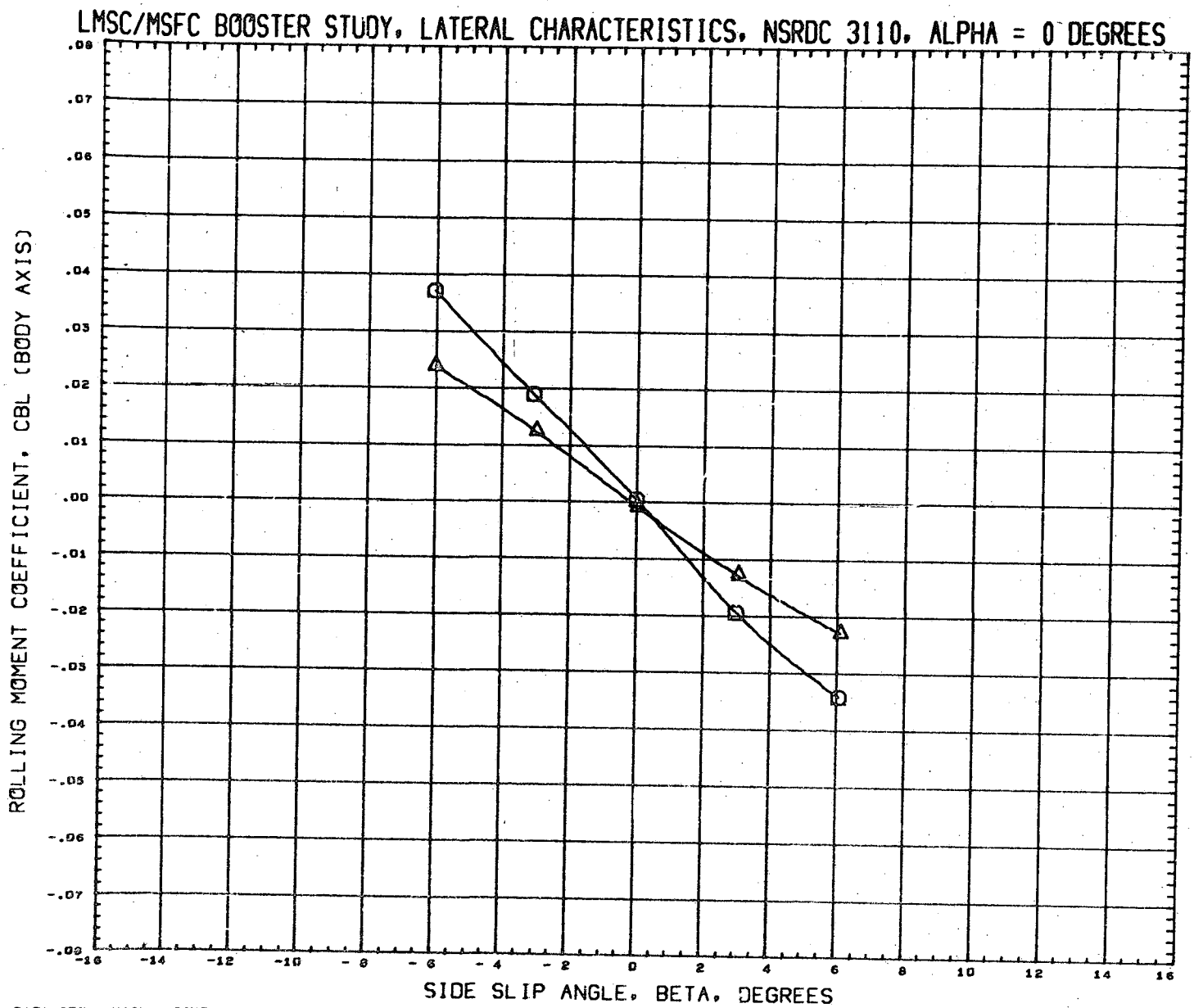
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2065)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2129)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

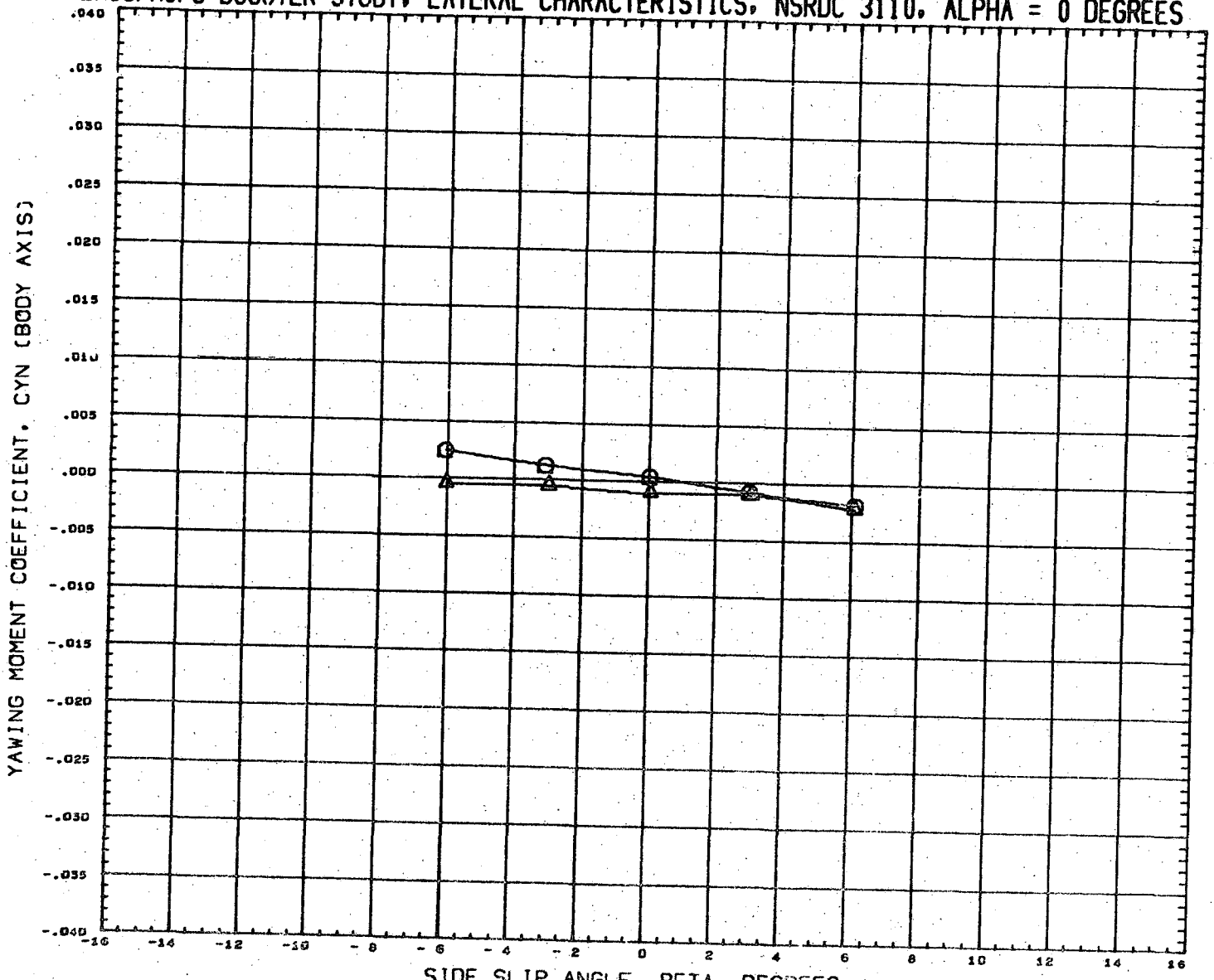


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2066)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2130)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2066)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2130)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

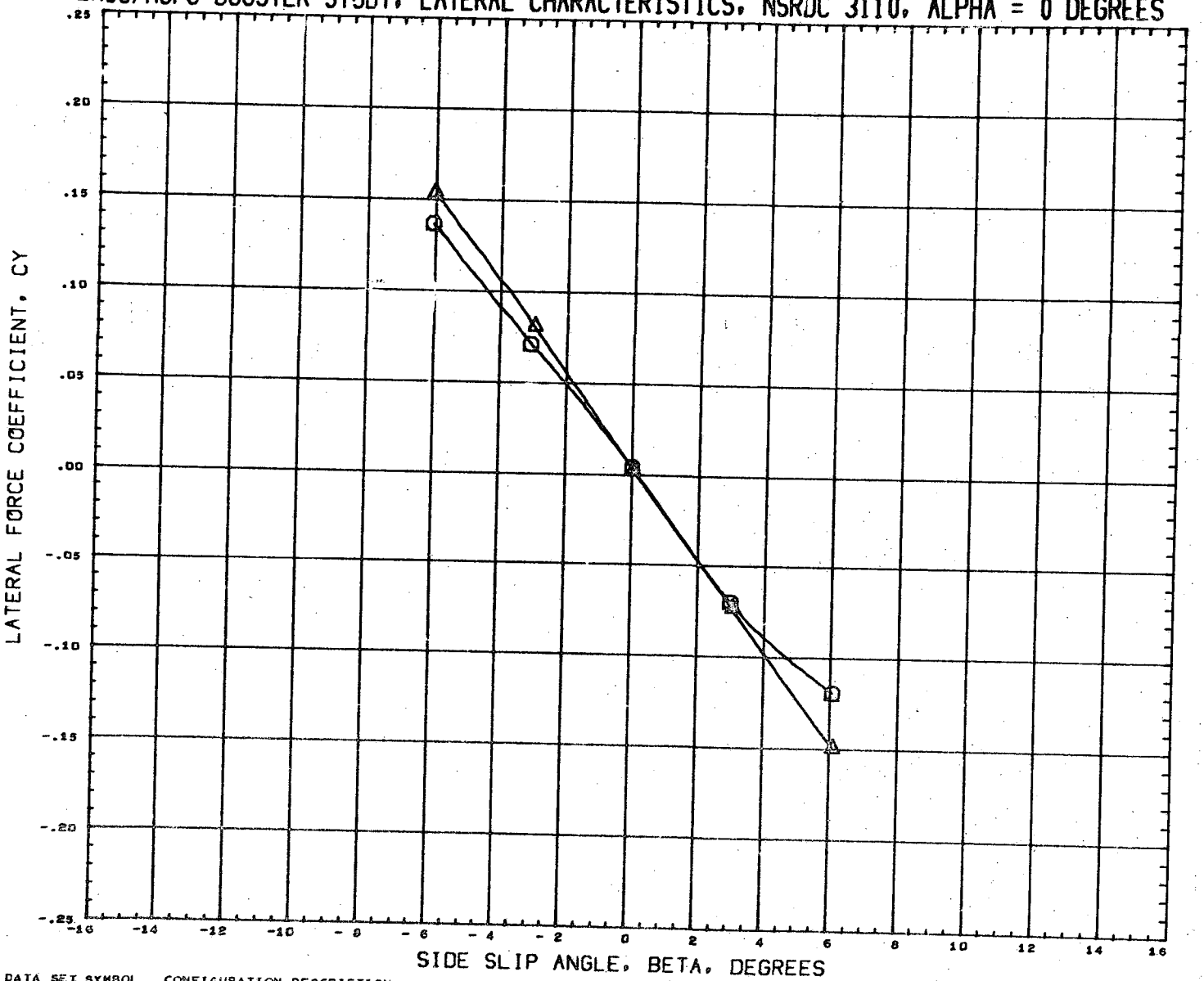
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

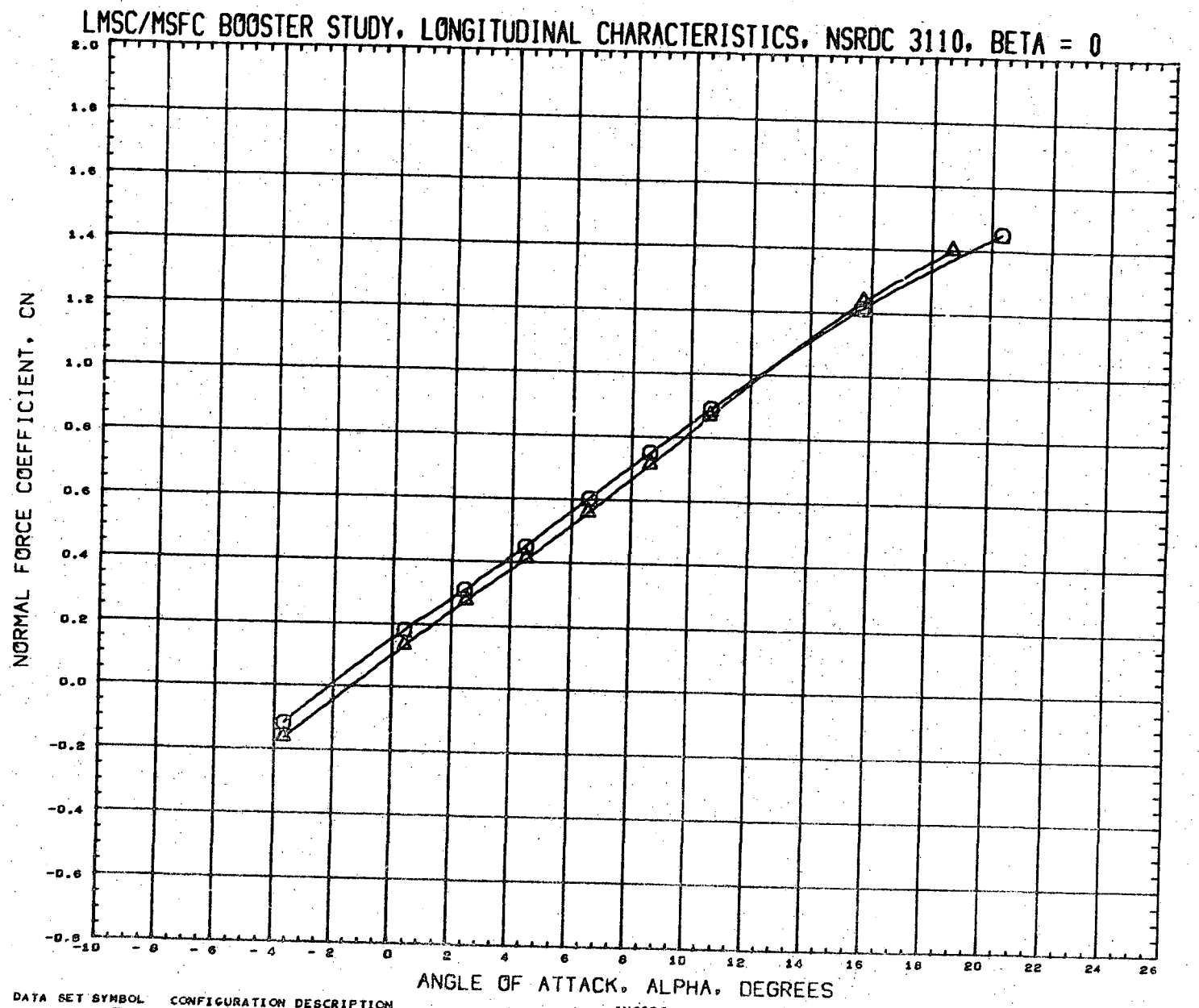
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2066)	Q	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2130)	Δ	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

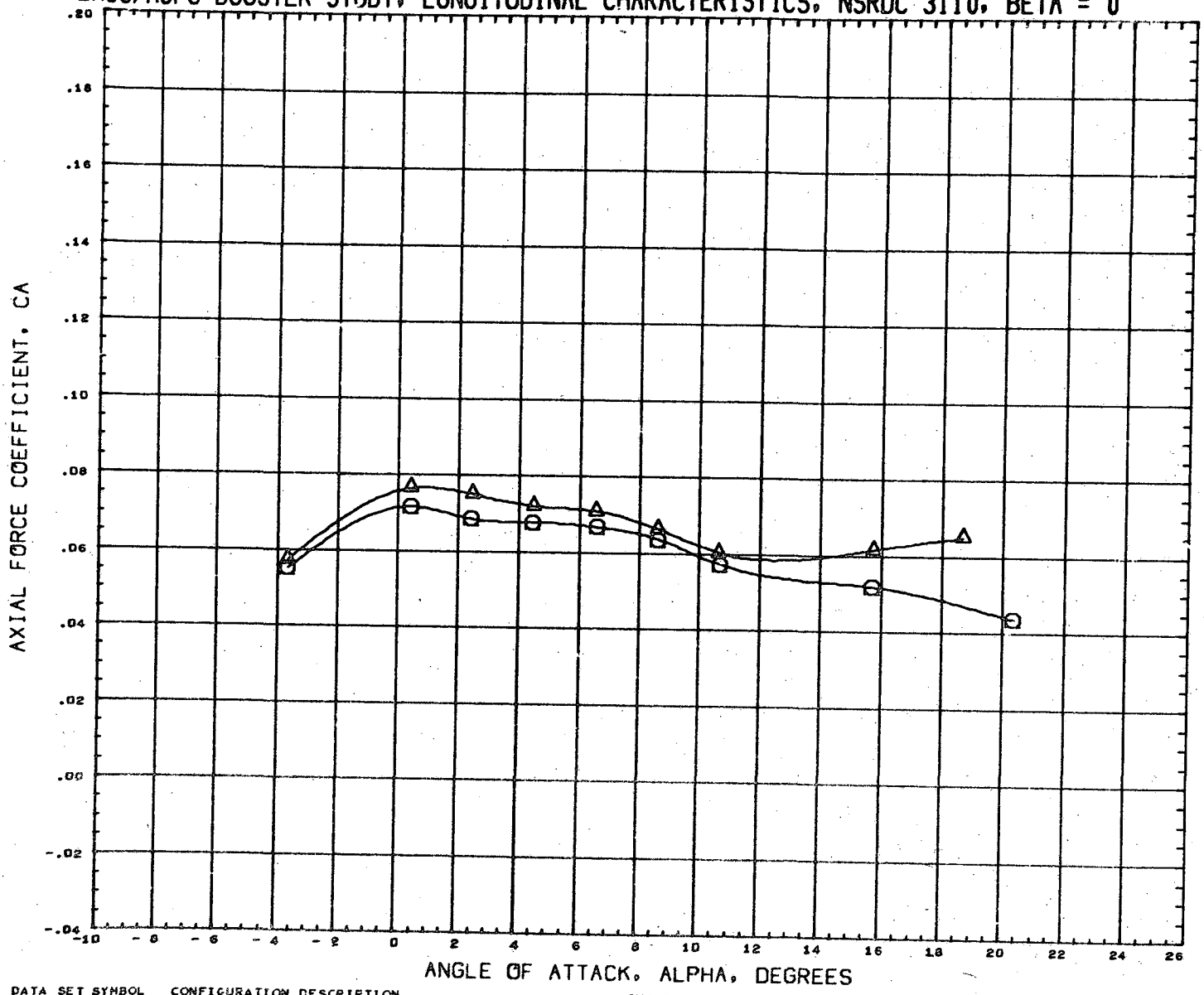


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2059)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2135)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

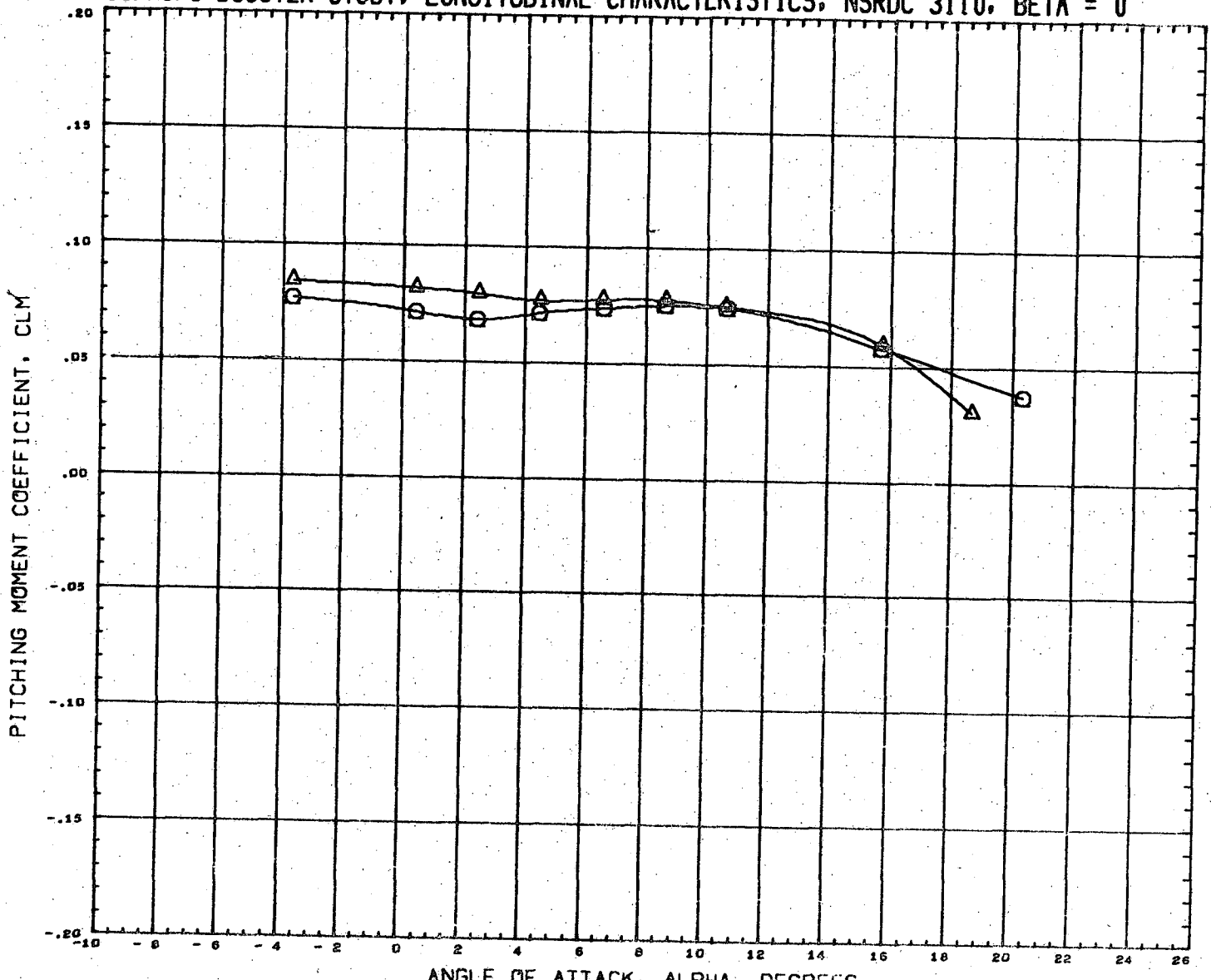


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2133)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

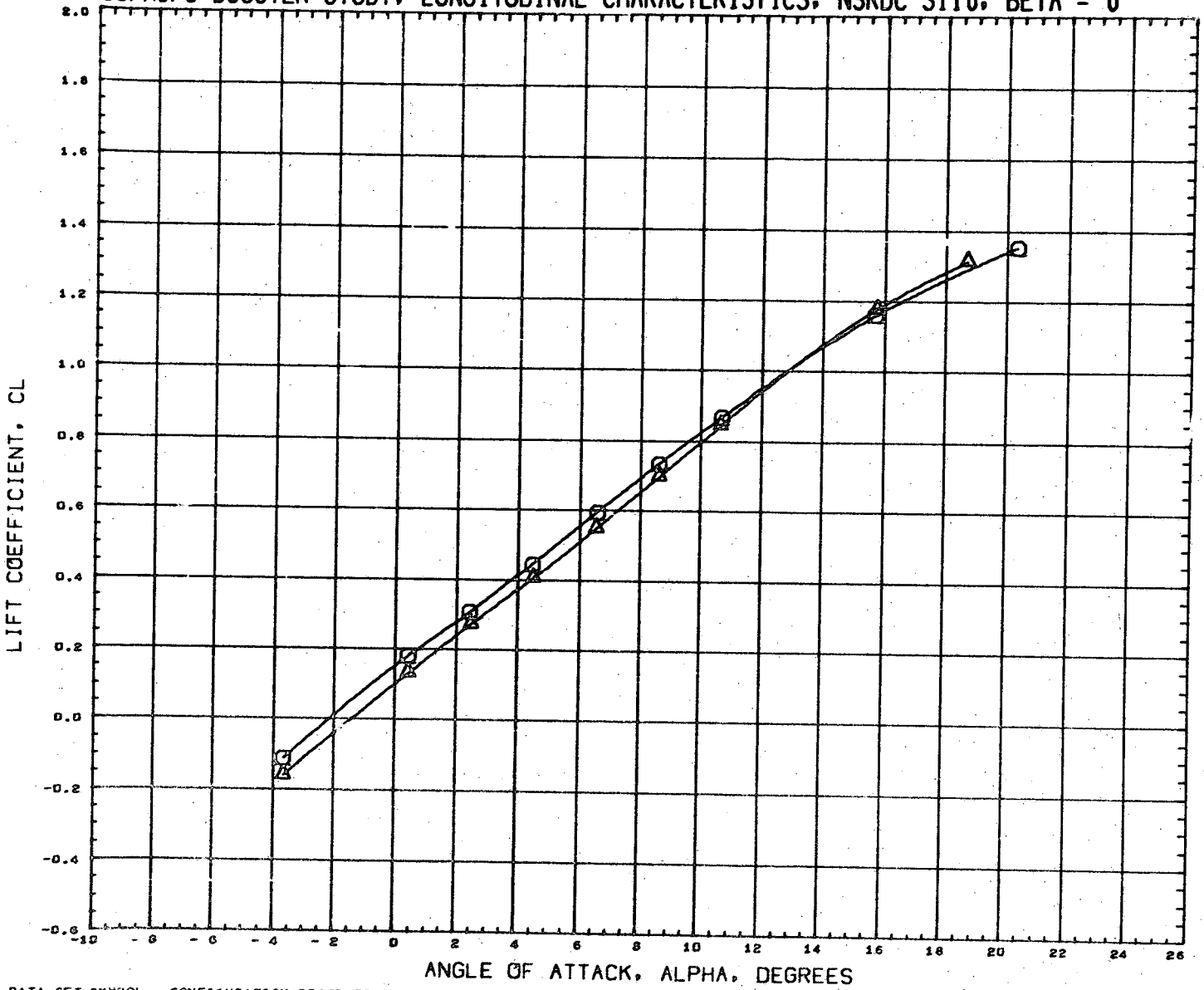


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2133)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

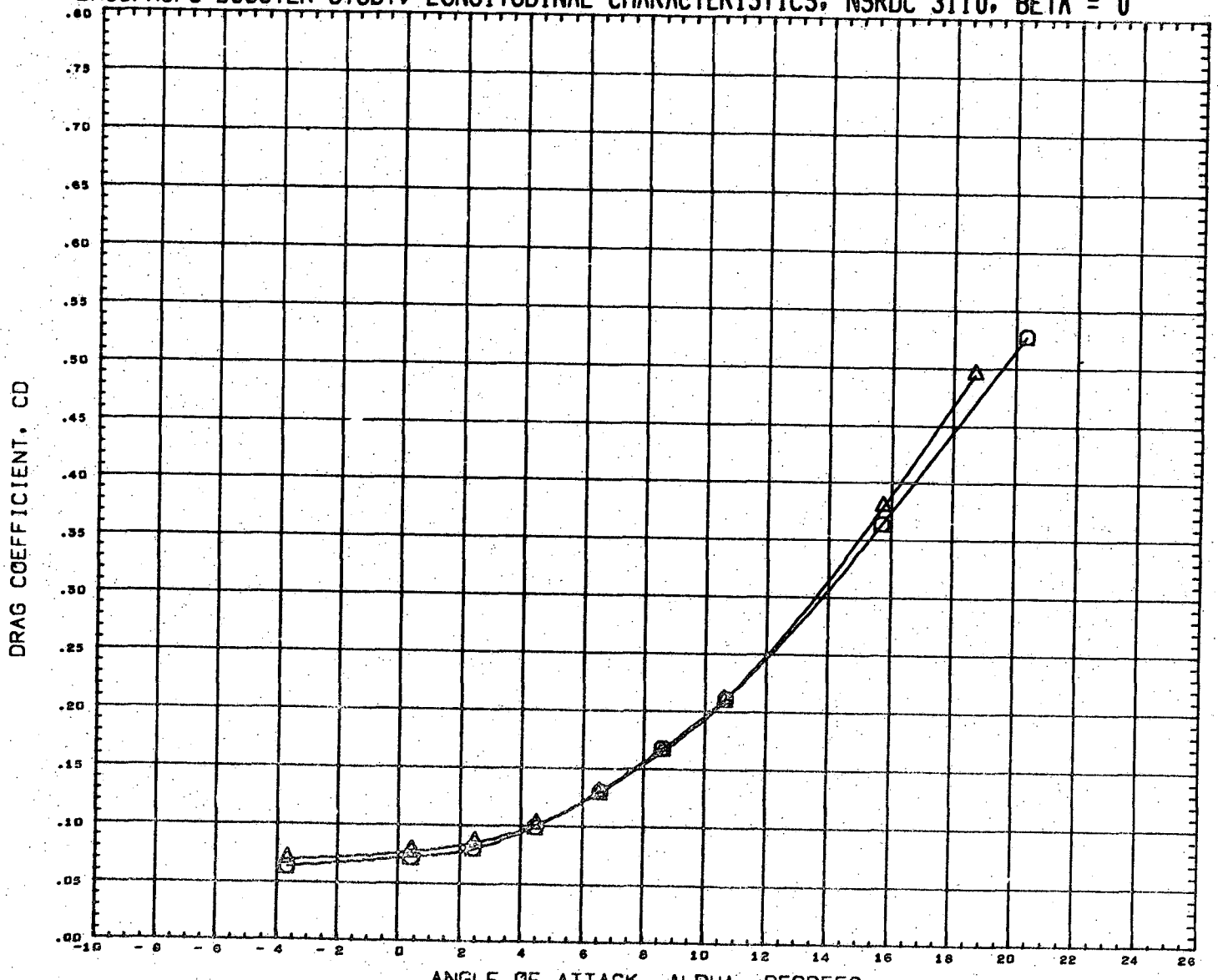


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2133)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

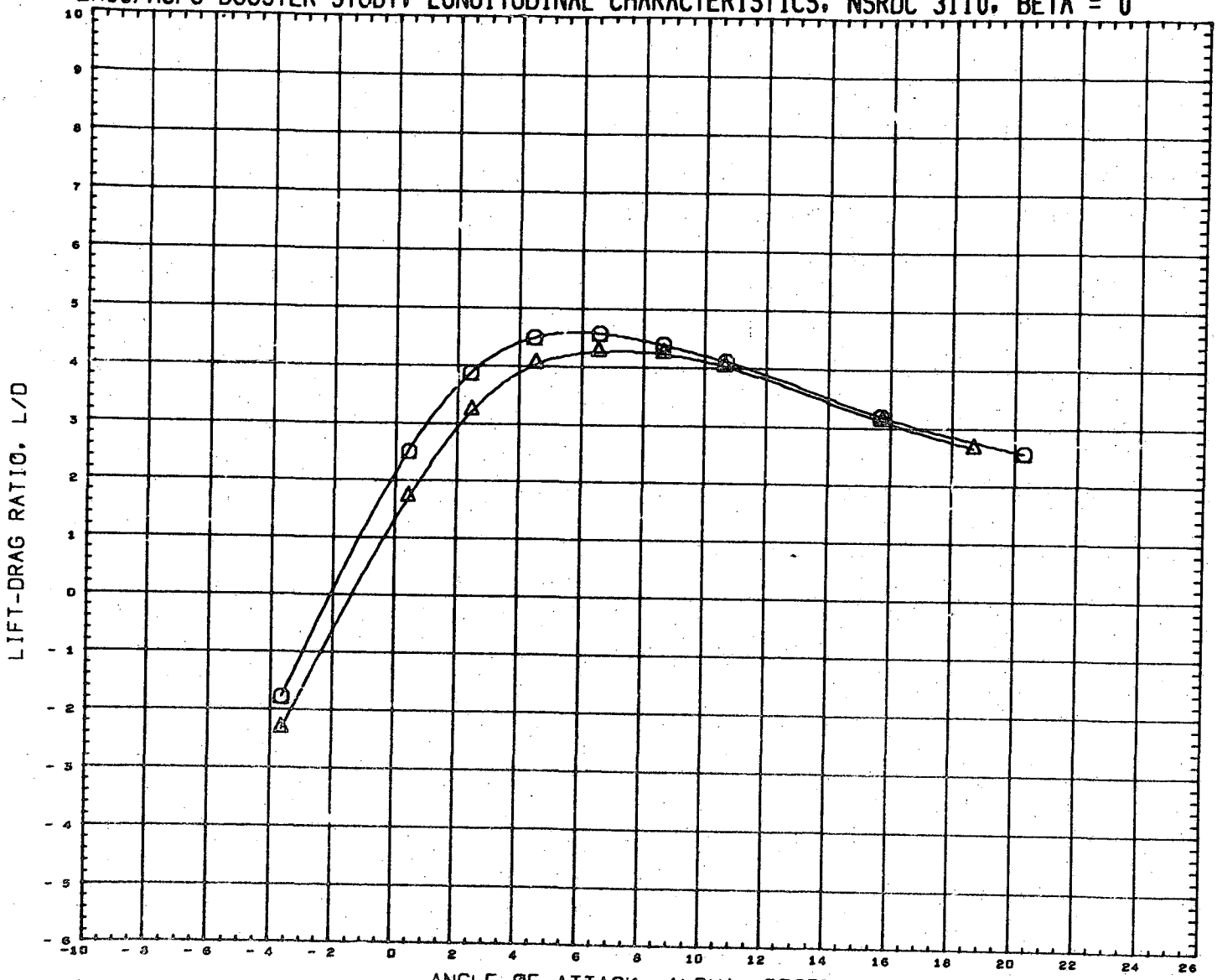


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2133)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000

MACH 0.301

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

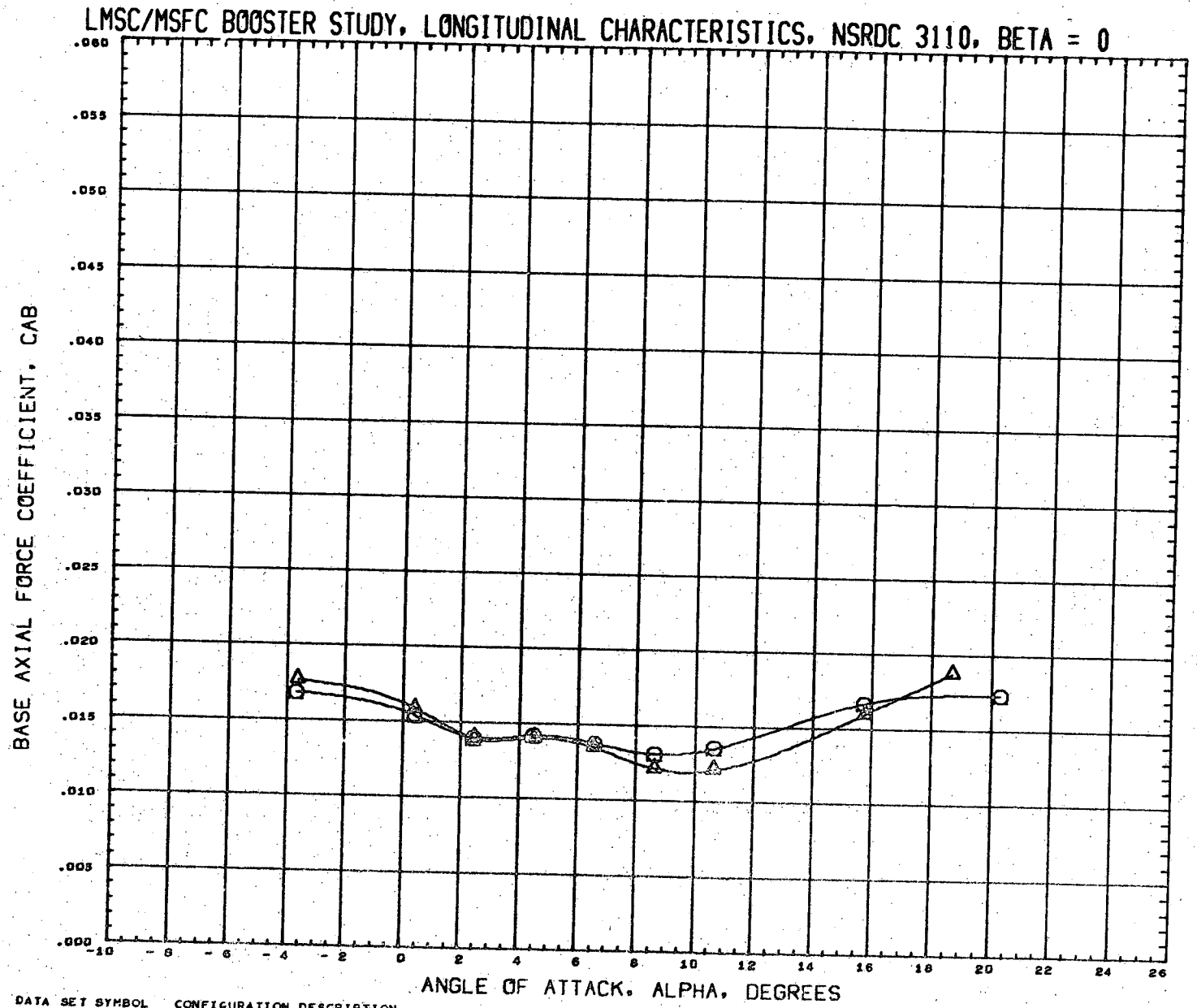


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2133)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

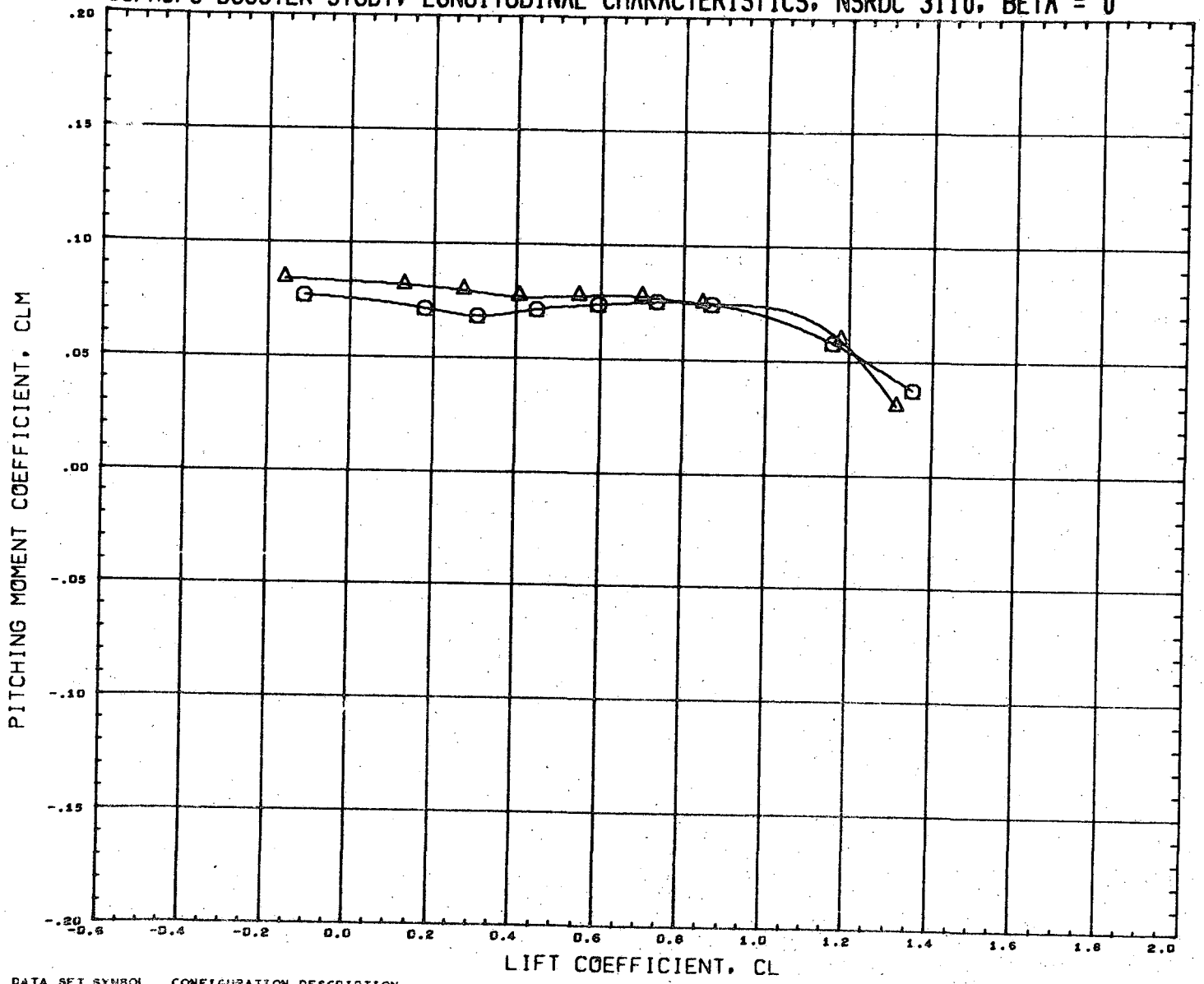


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2133)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

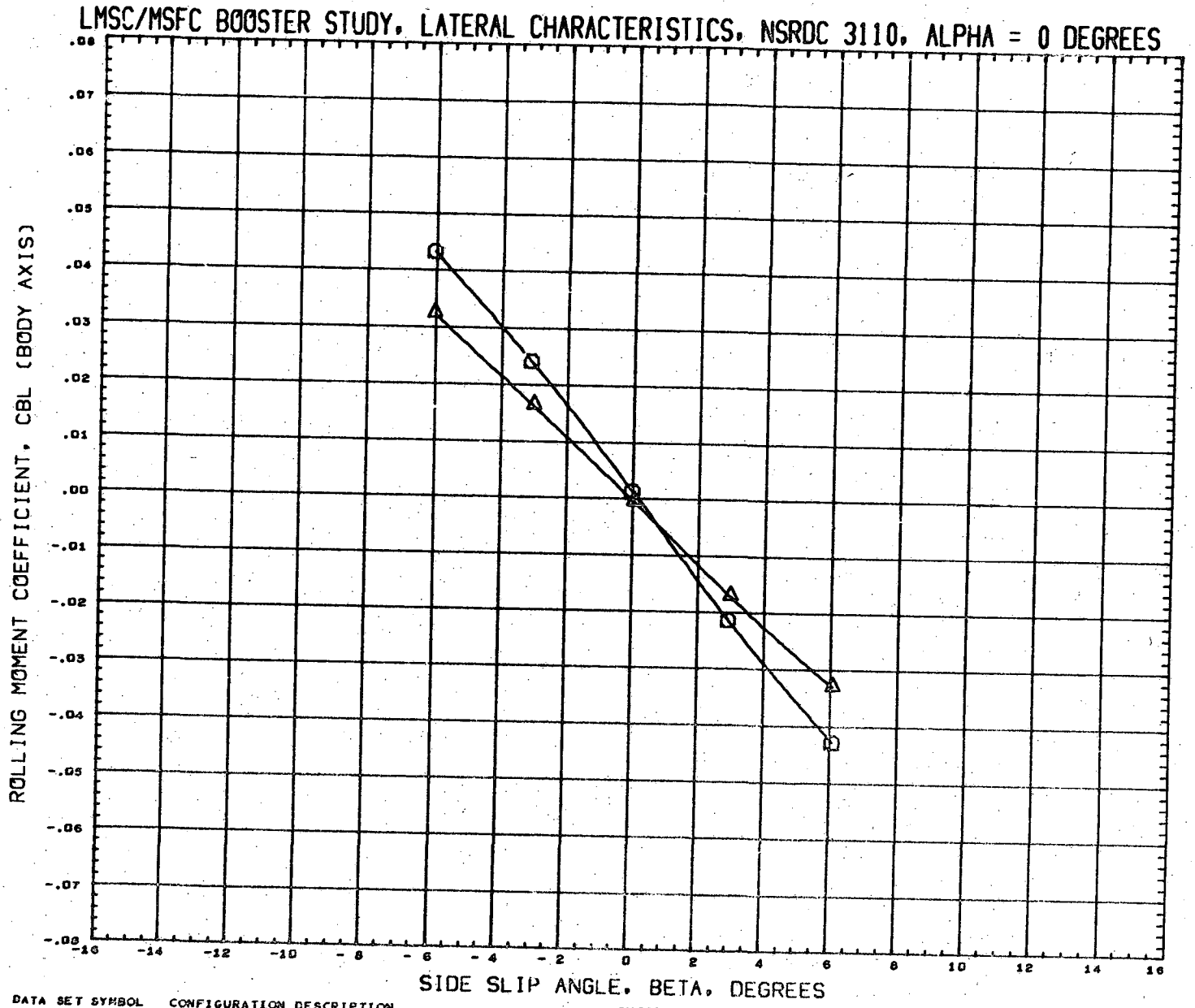
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2133)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

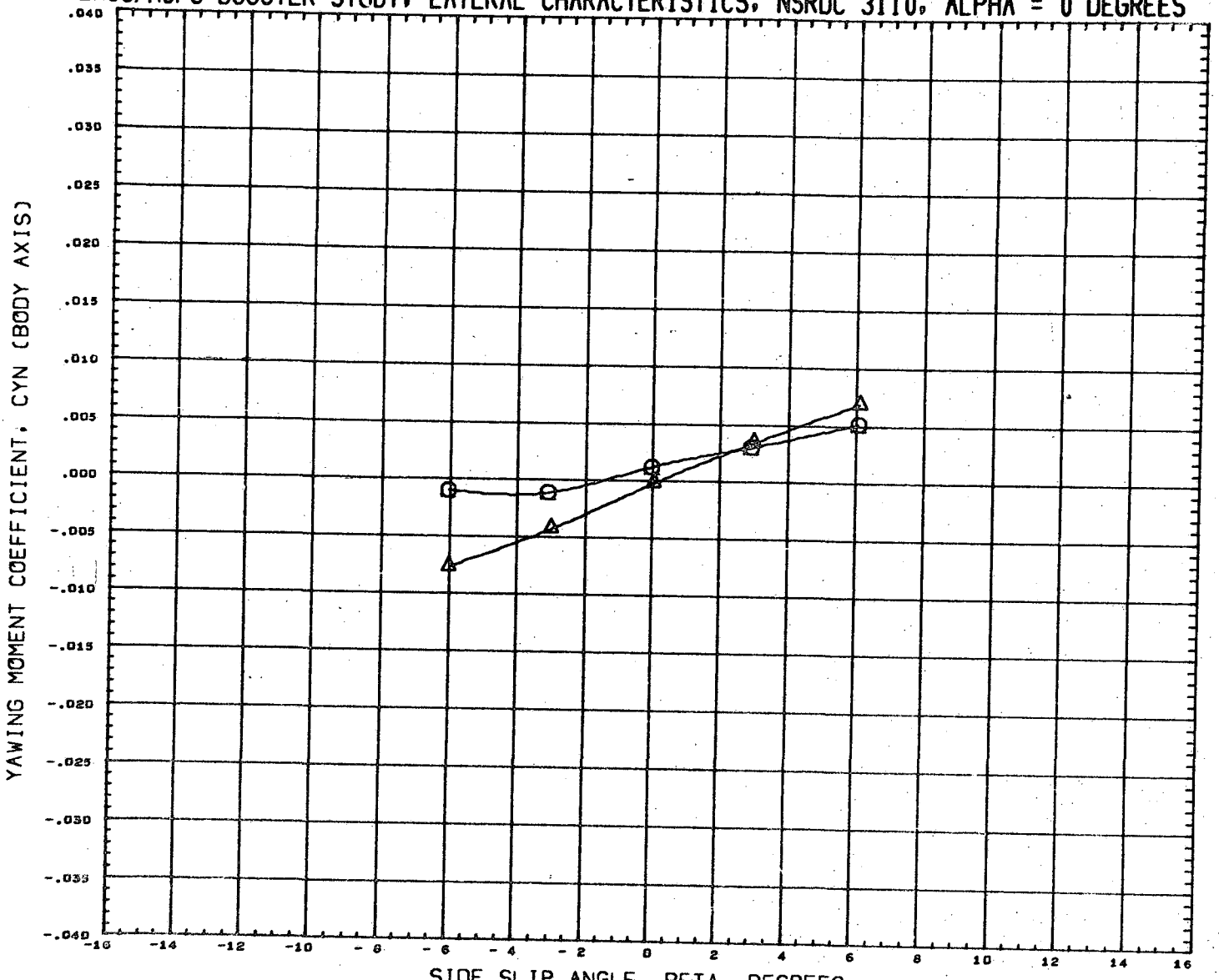


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2070)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2134)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

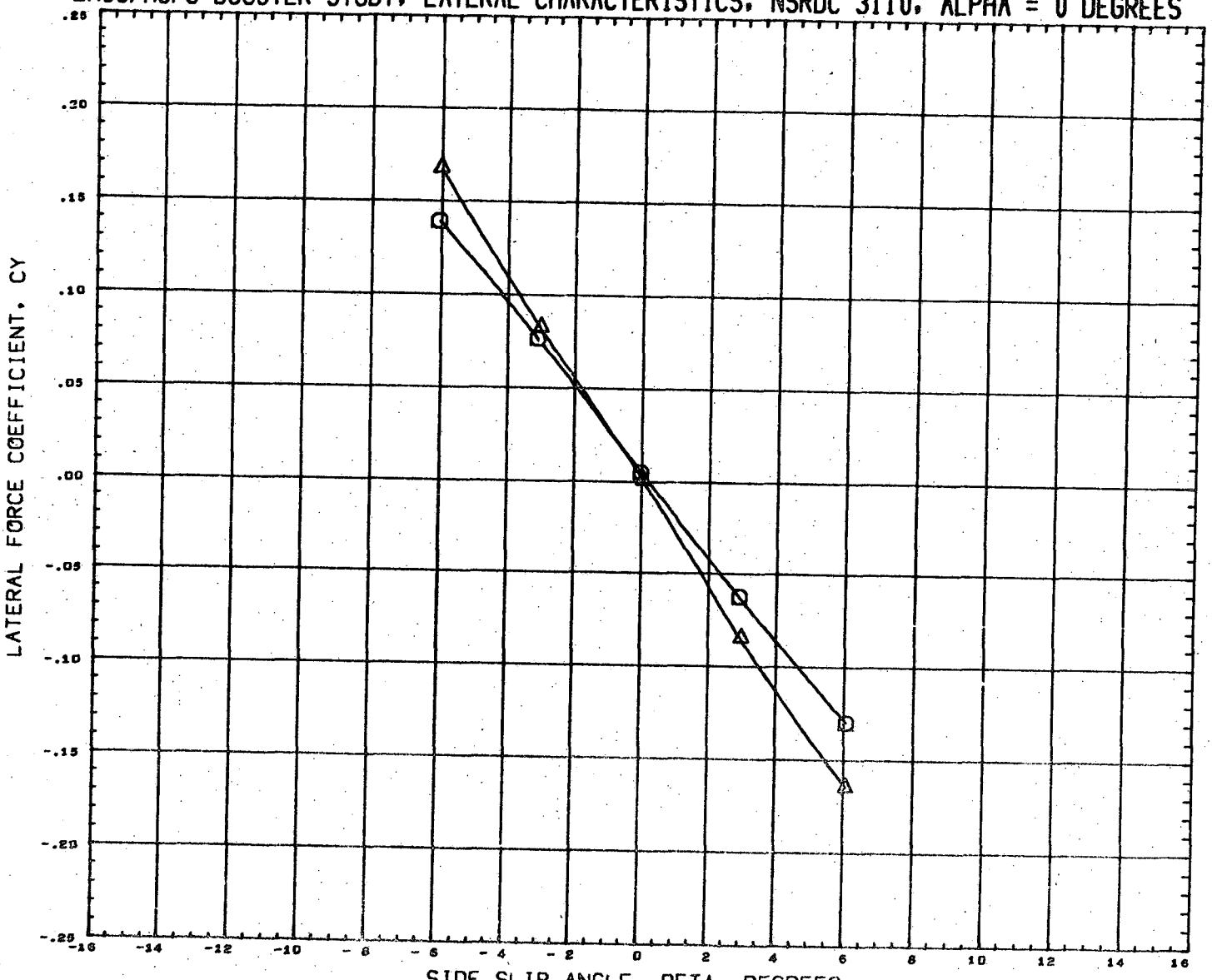


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2070)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2134)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØØSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

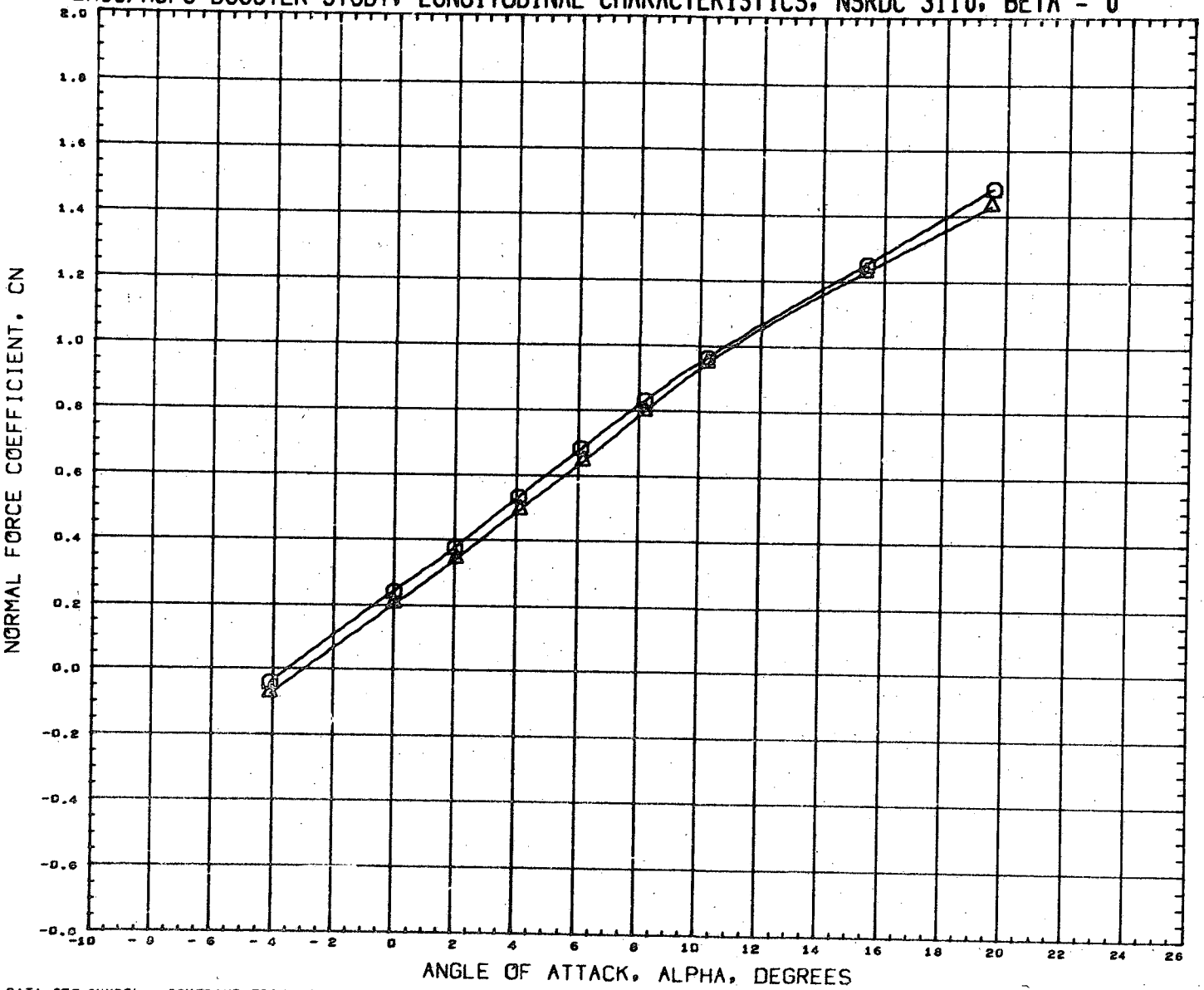


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2070)	○	N3RDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2134)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

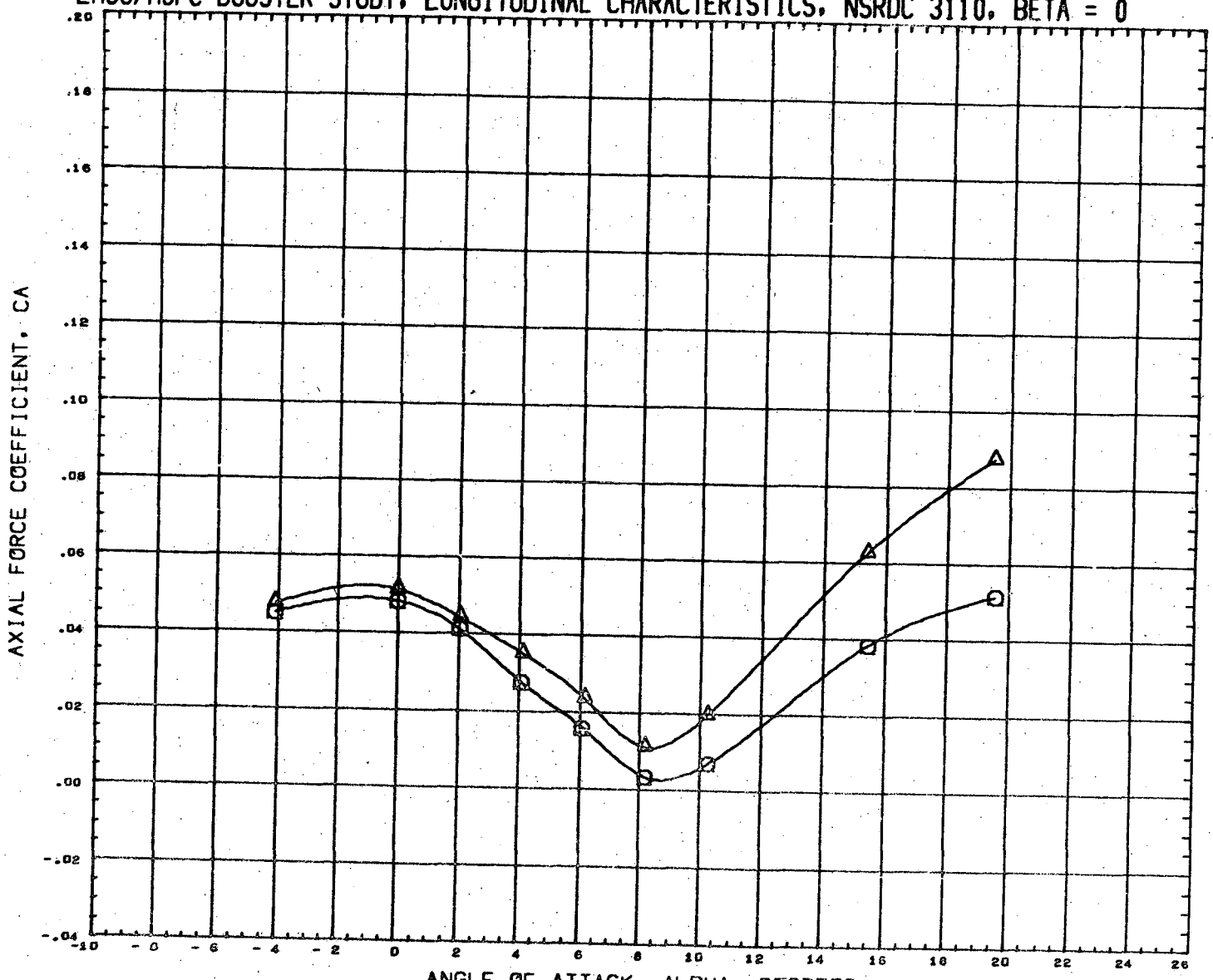


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RM2097)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RM2161)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

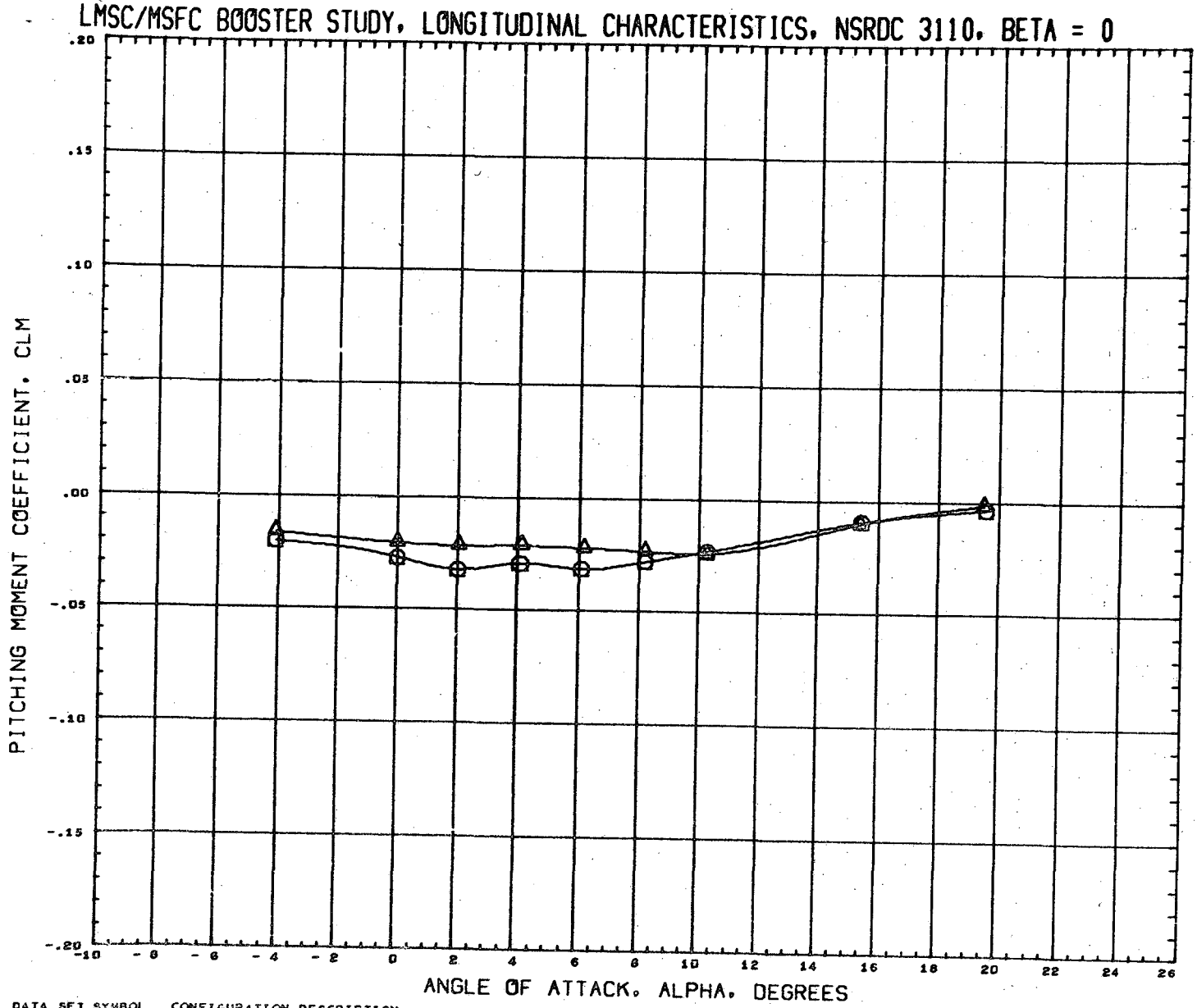
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)	○	NSRDC-3110;MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2161)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000

MACH 0.383

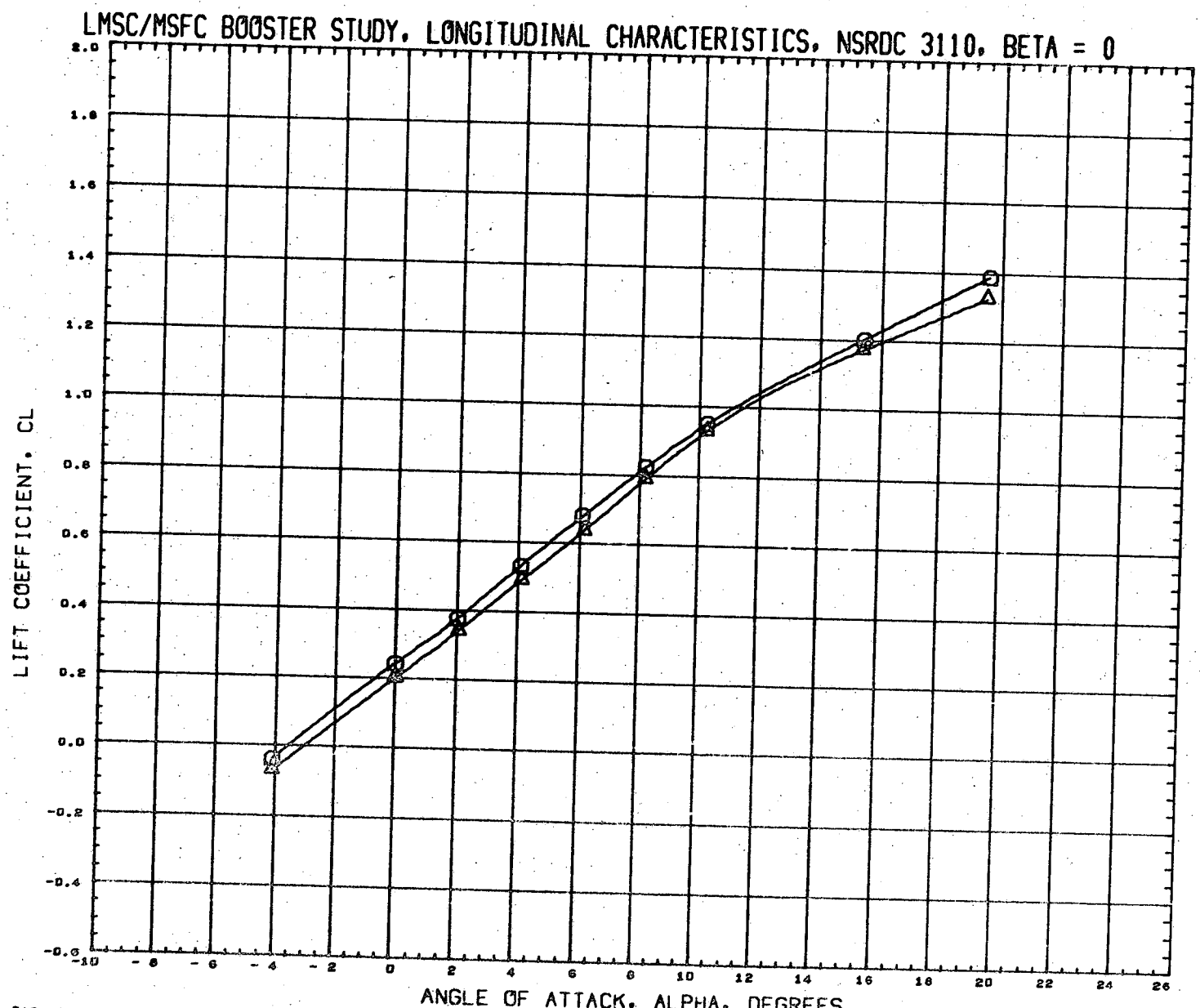
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2161)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

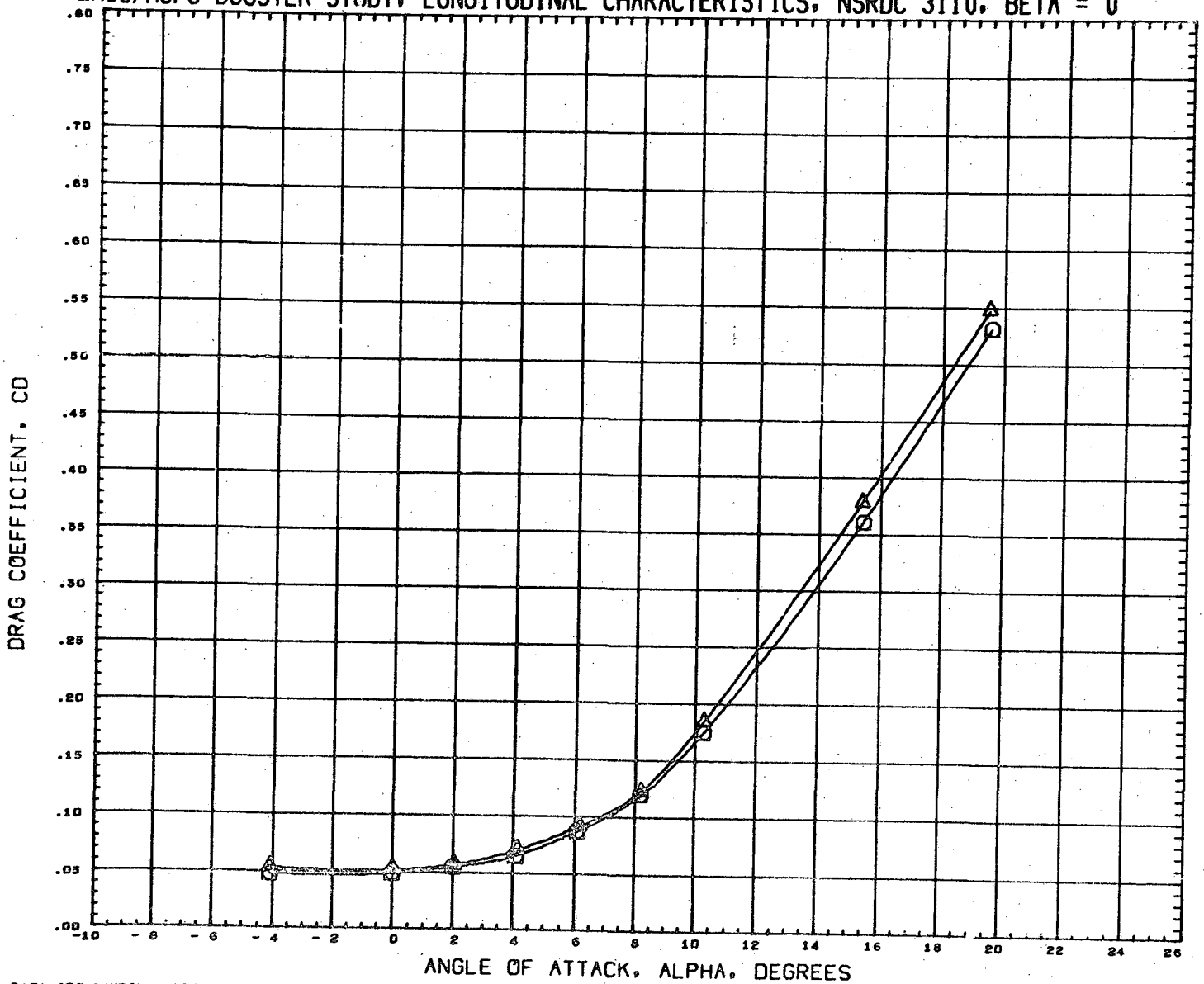


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2161)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000

MACH 0.385

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

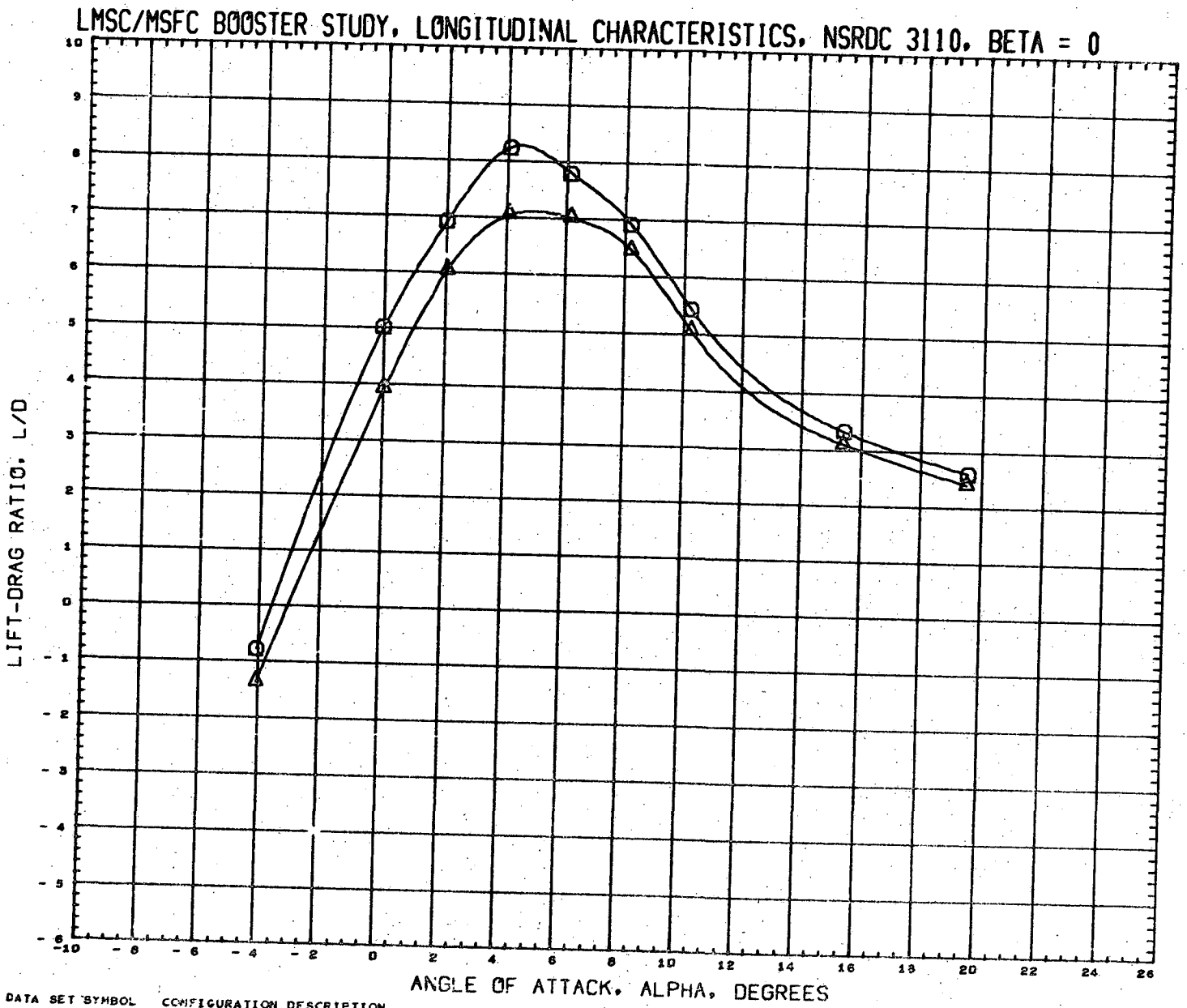
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2161)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V201	3.000	1.000	3.000	1.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



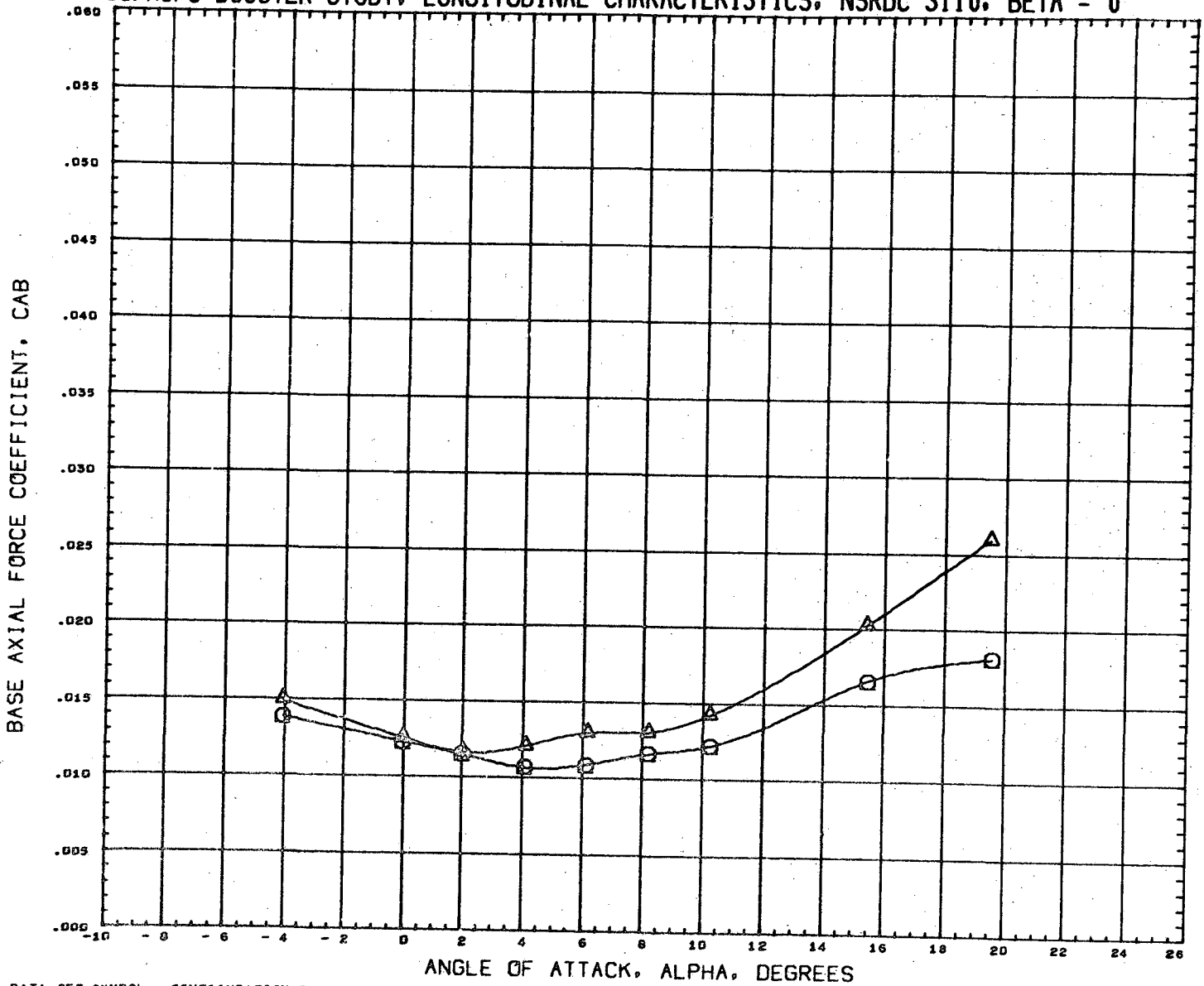
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2161)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000

MACH 0.385

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

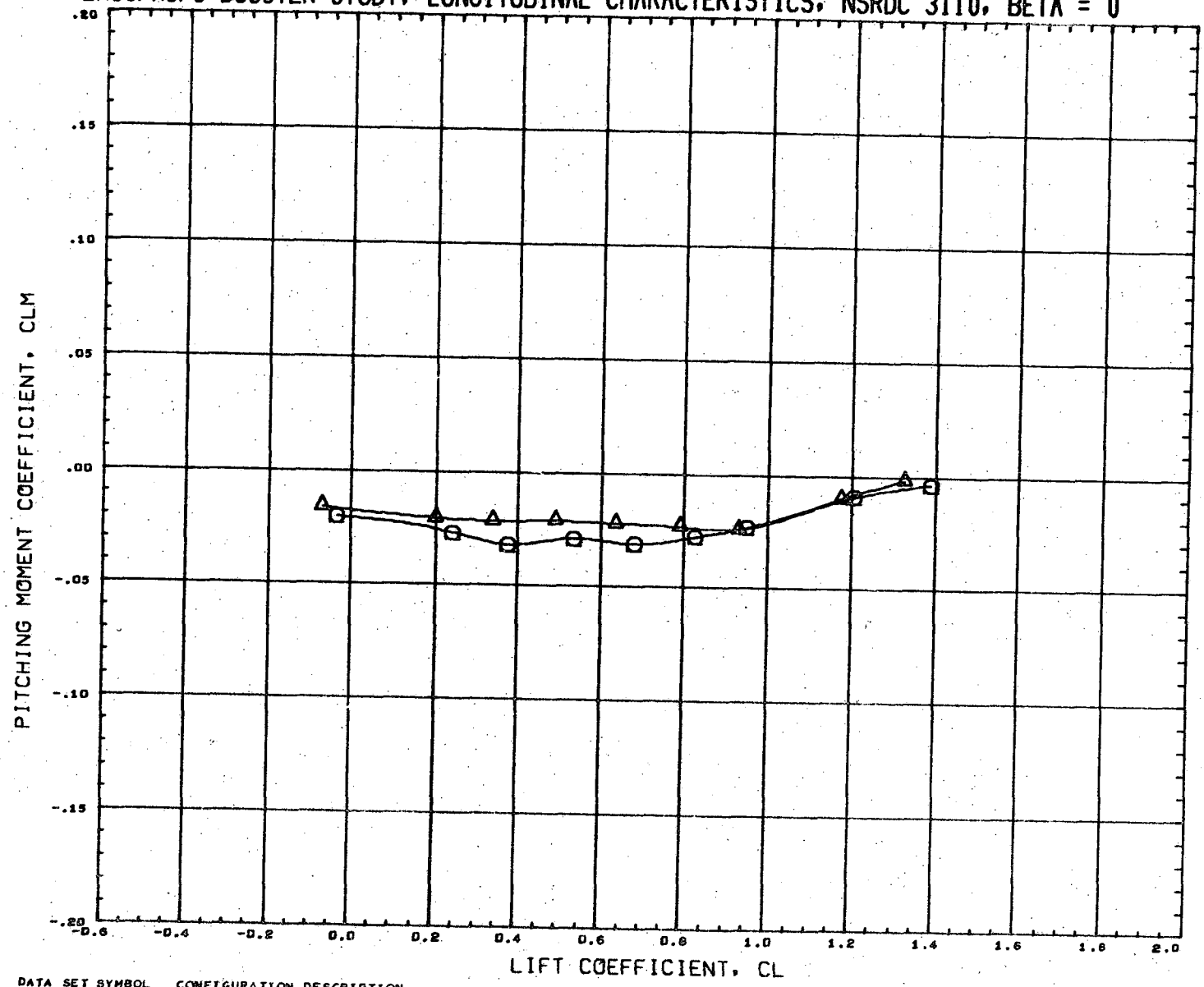


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2161)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

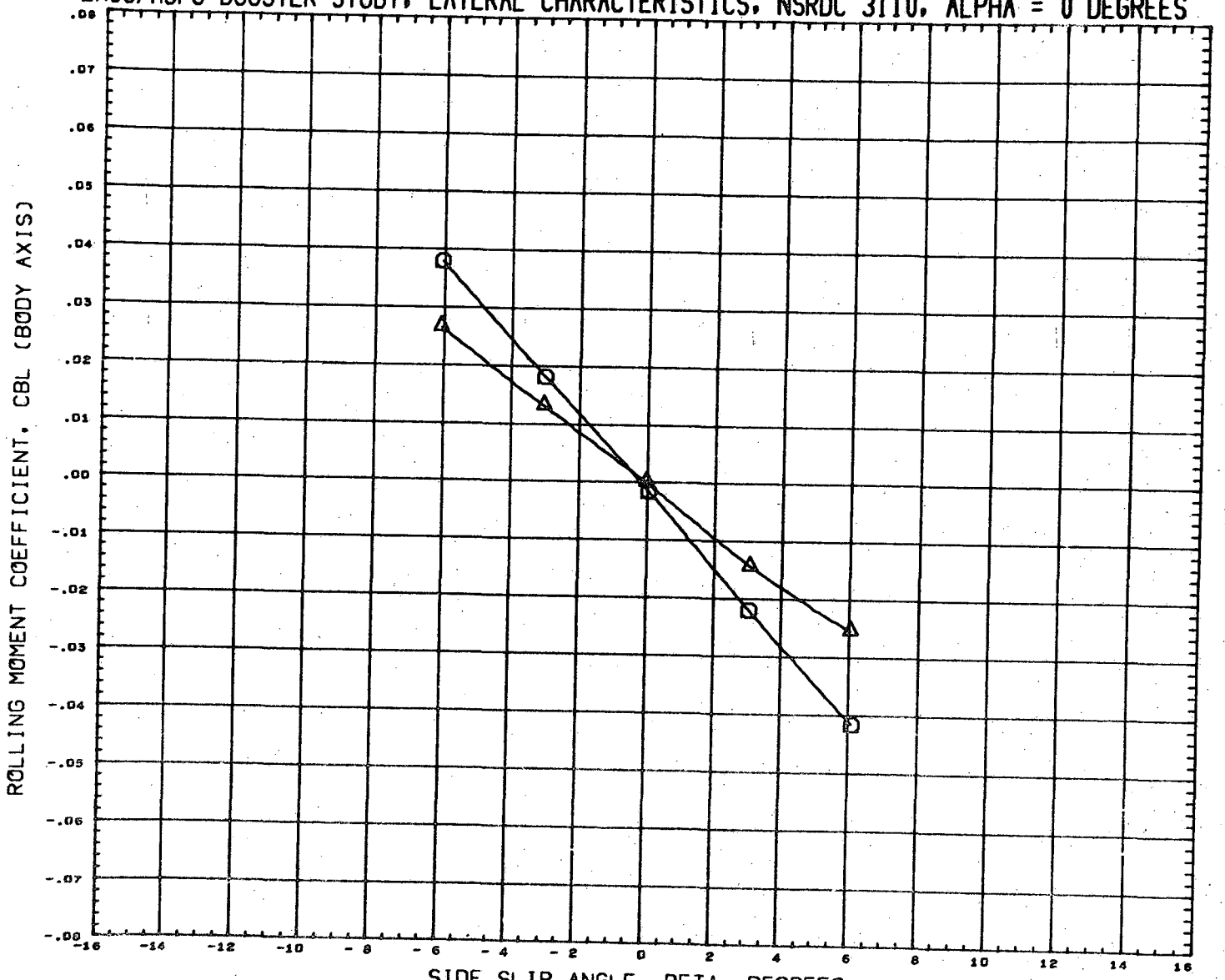


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2161)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



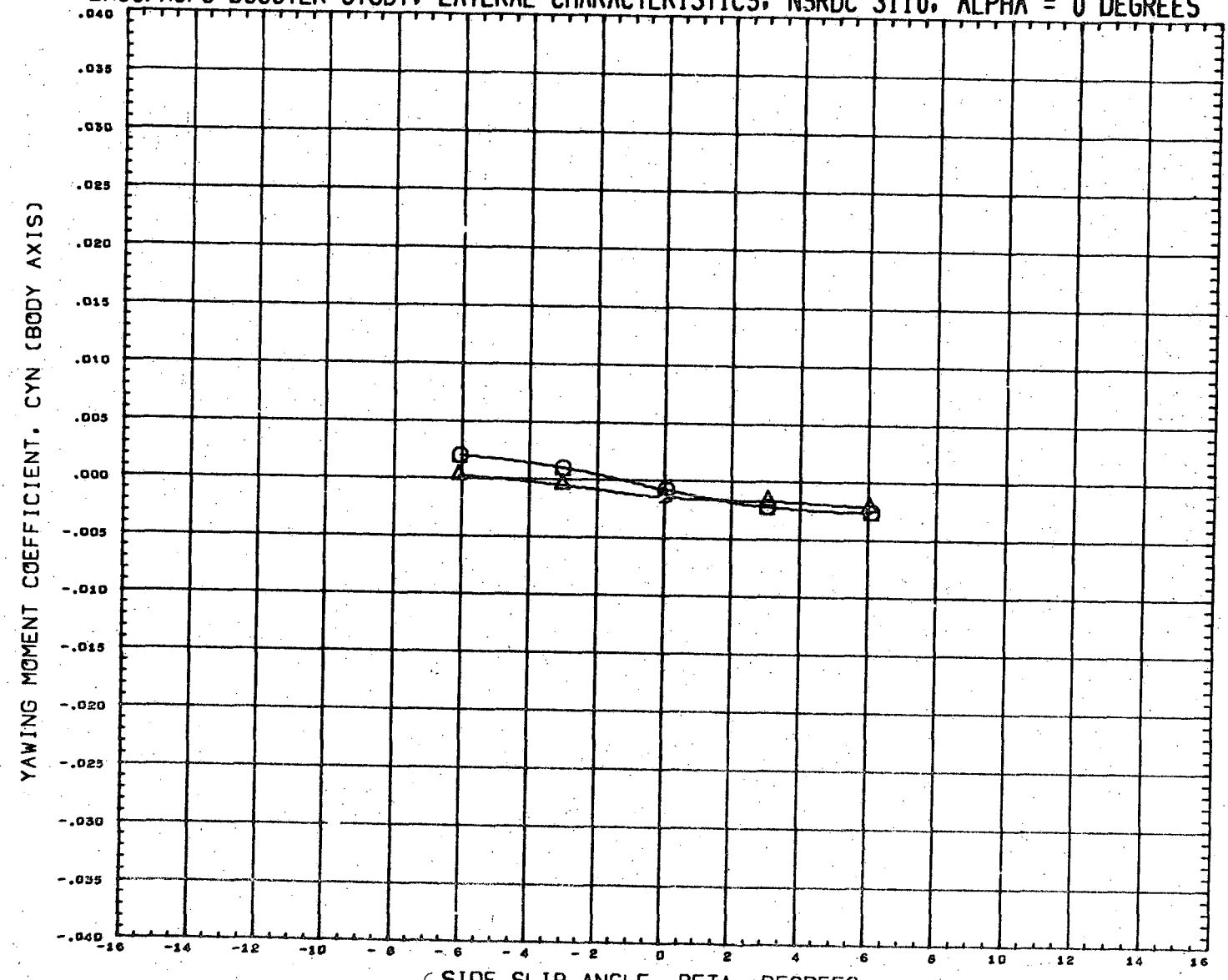
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2098)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2162)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

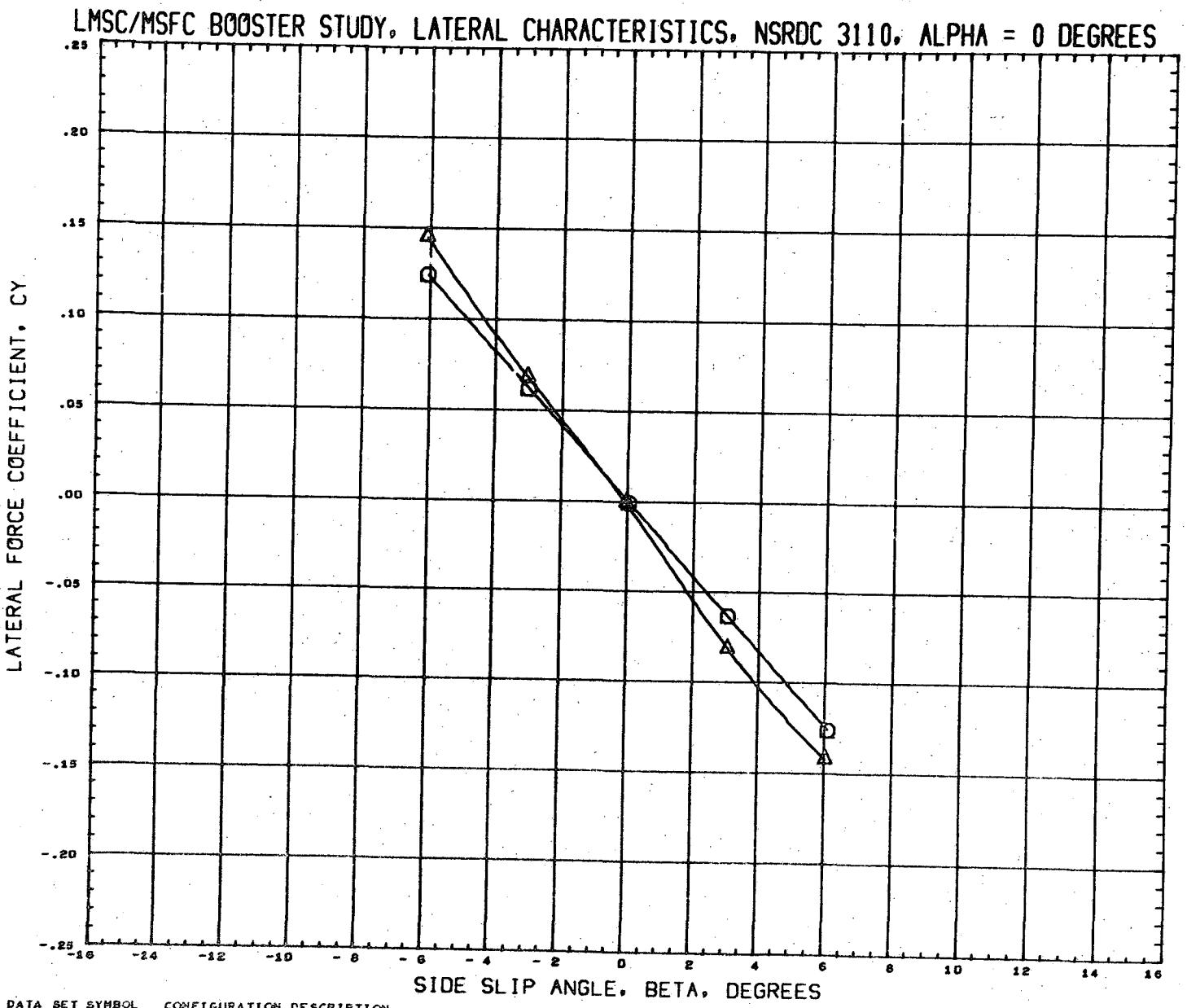
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2090)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2162)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000

MACH 0.301

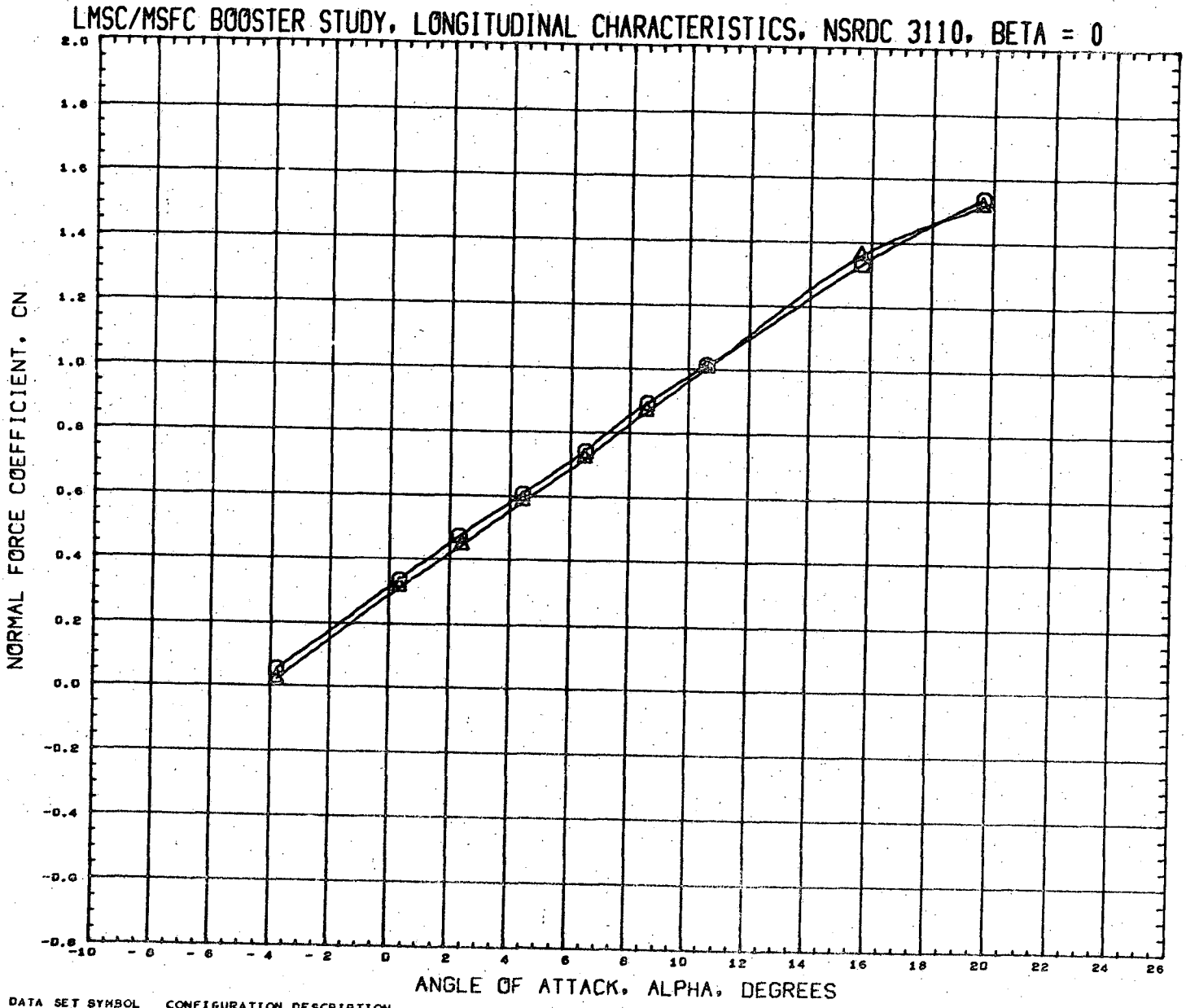
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2098)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2182)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

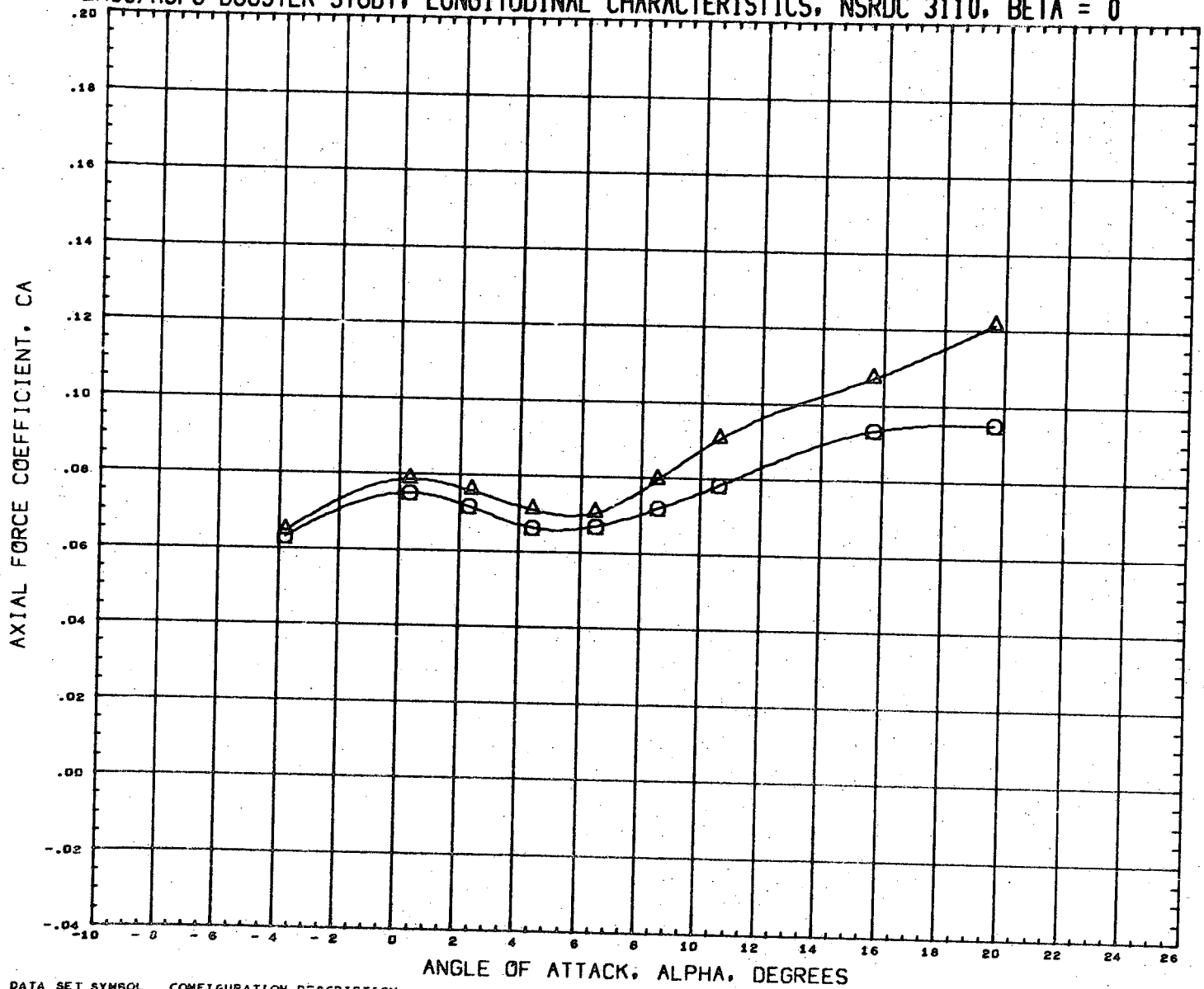


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2101)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2165)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØOSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

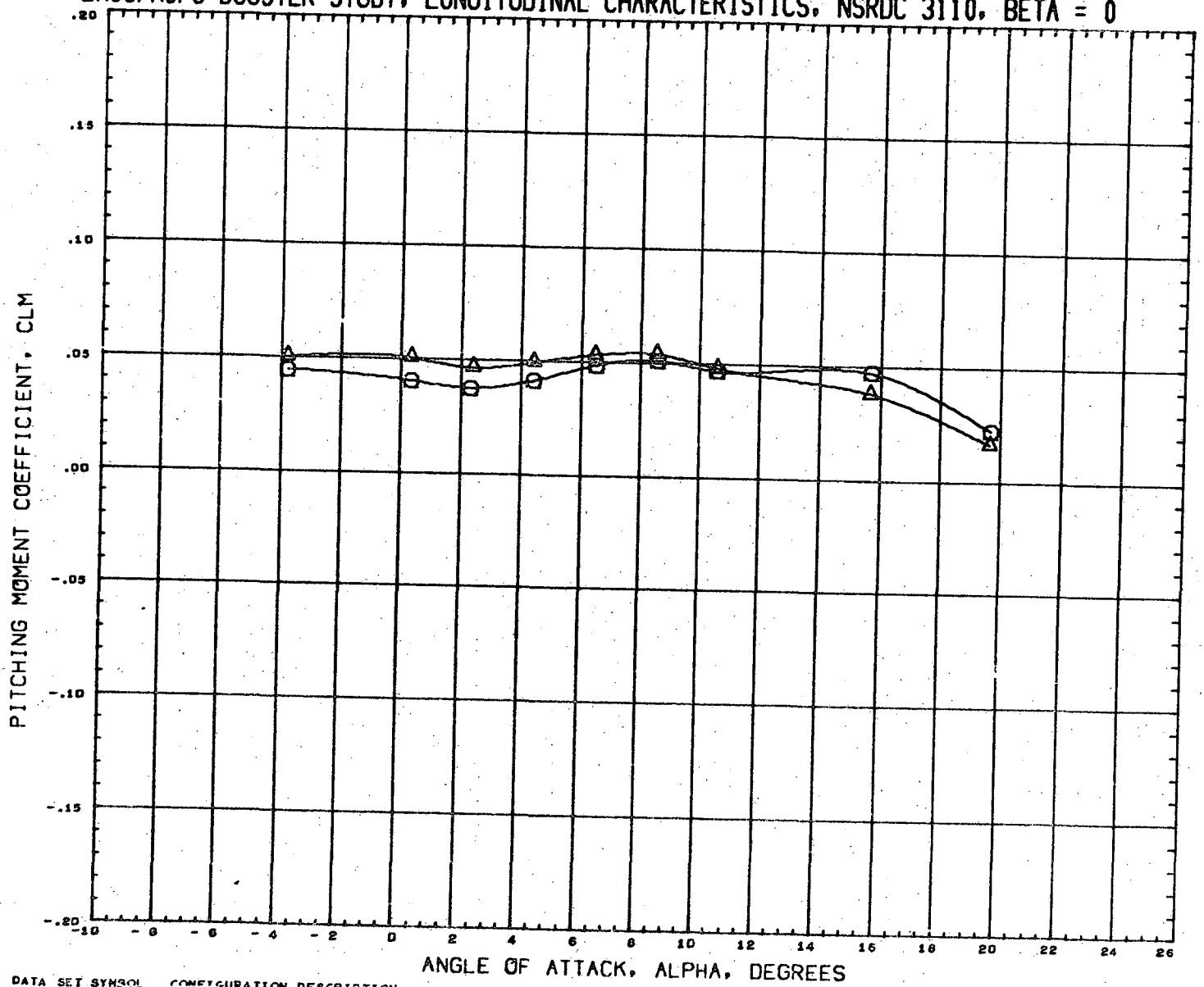


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS
(RN2101)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2165)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

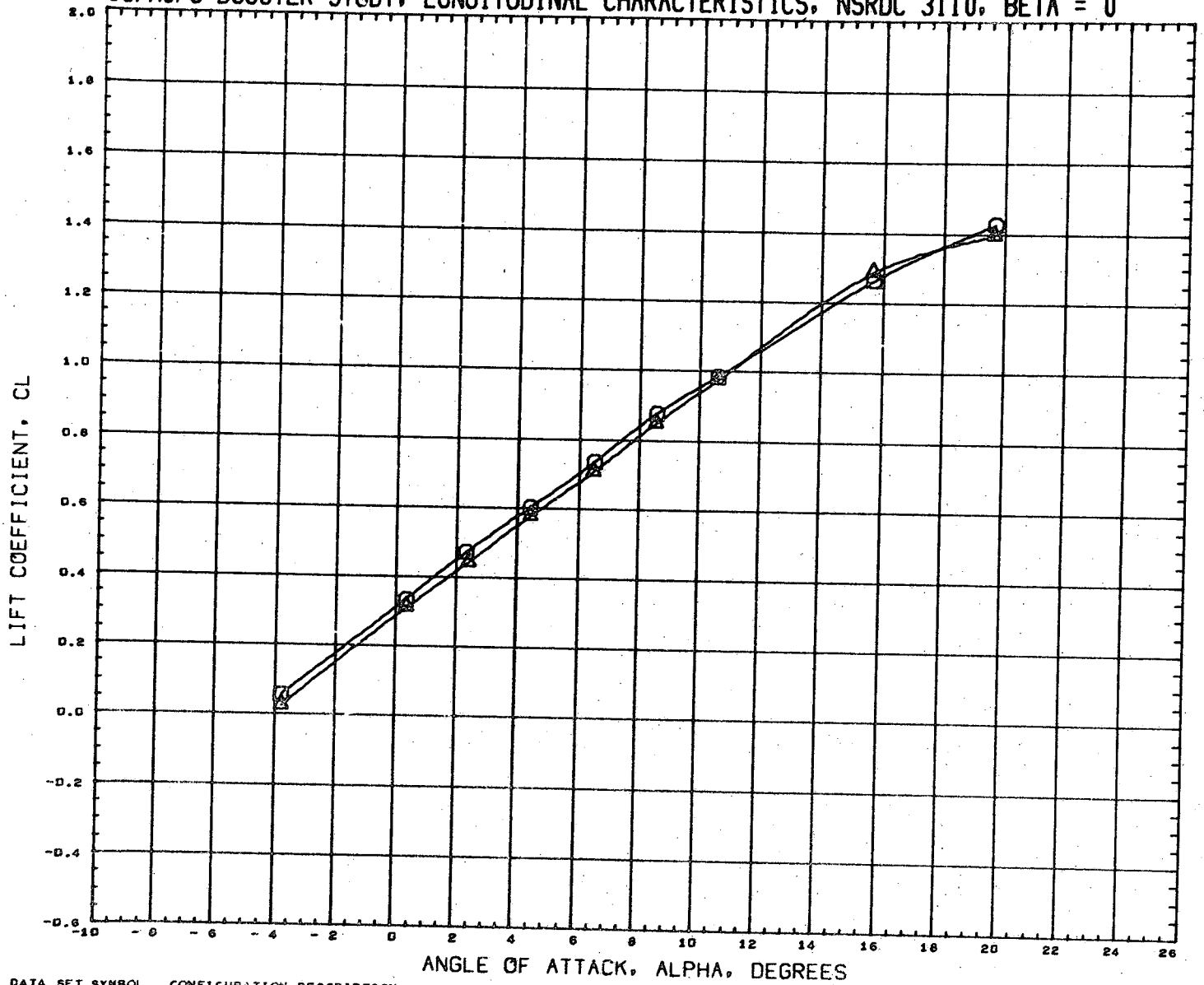


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN21D1)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2165)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2101)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2165)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

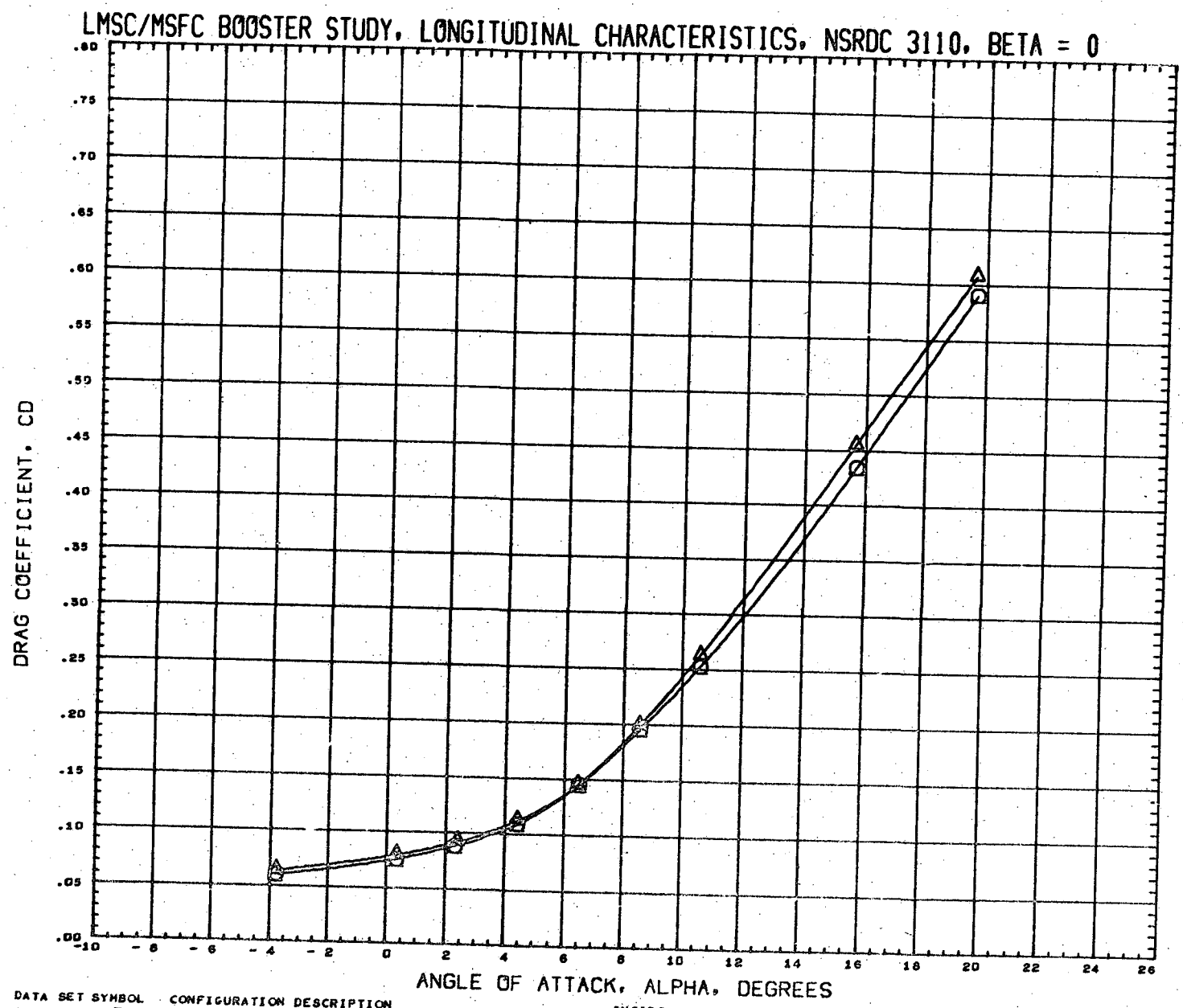
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000

MACH 0.581

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

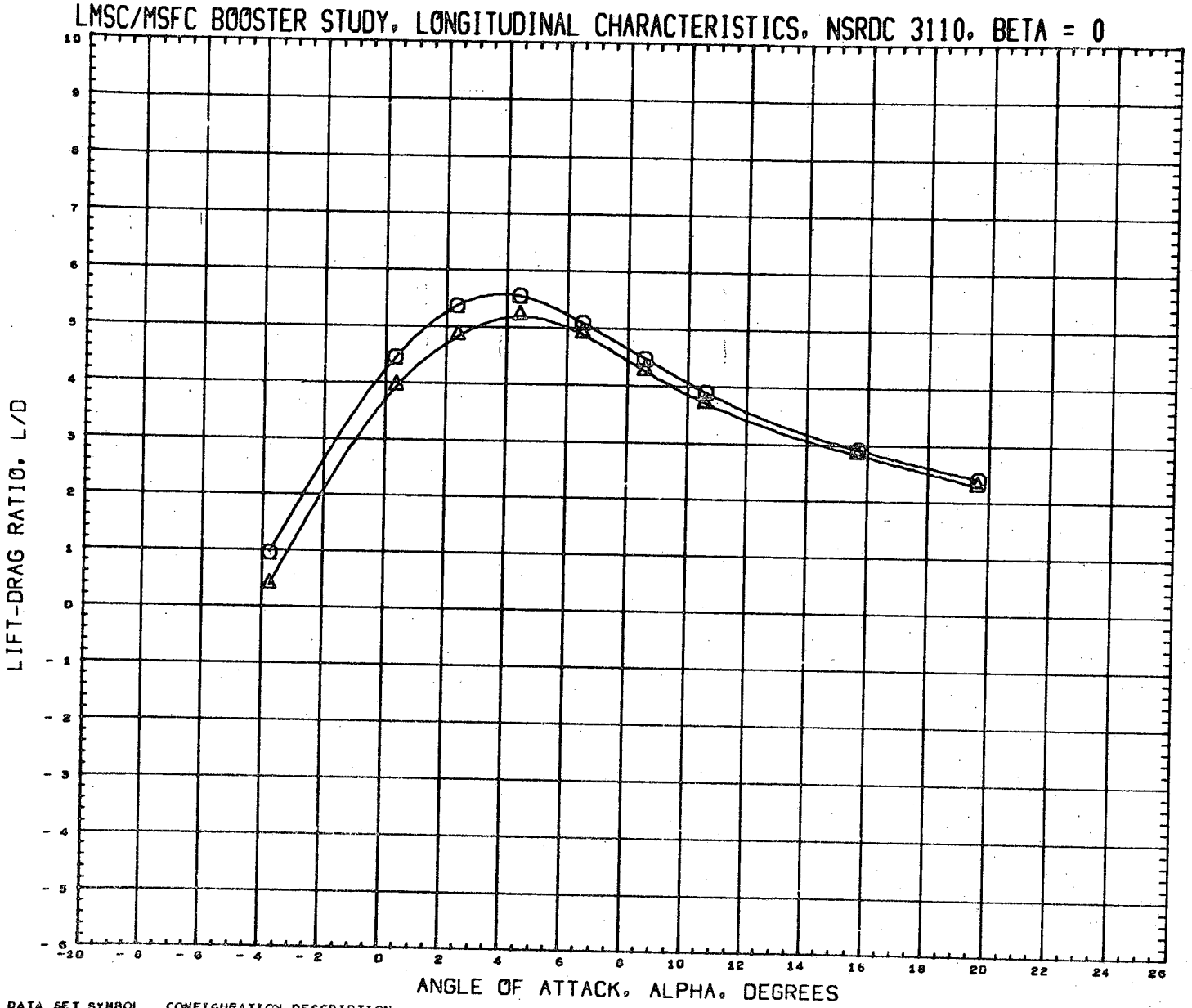
6A



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2101)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2165)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000

MACH 0.301

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

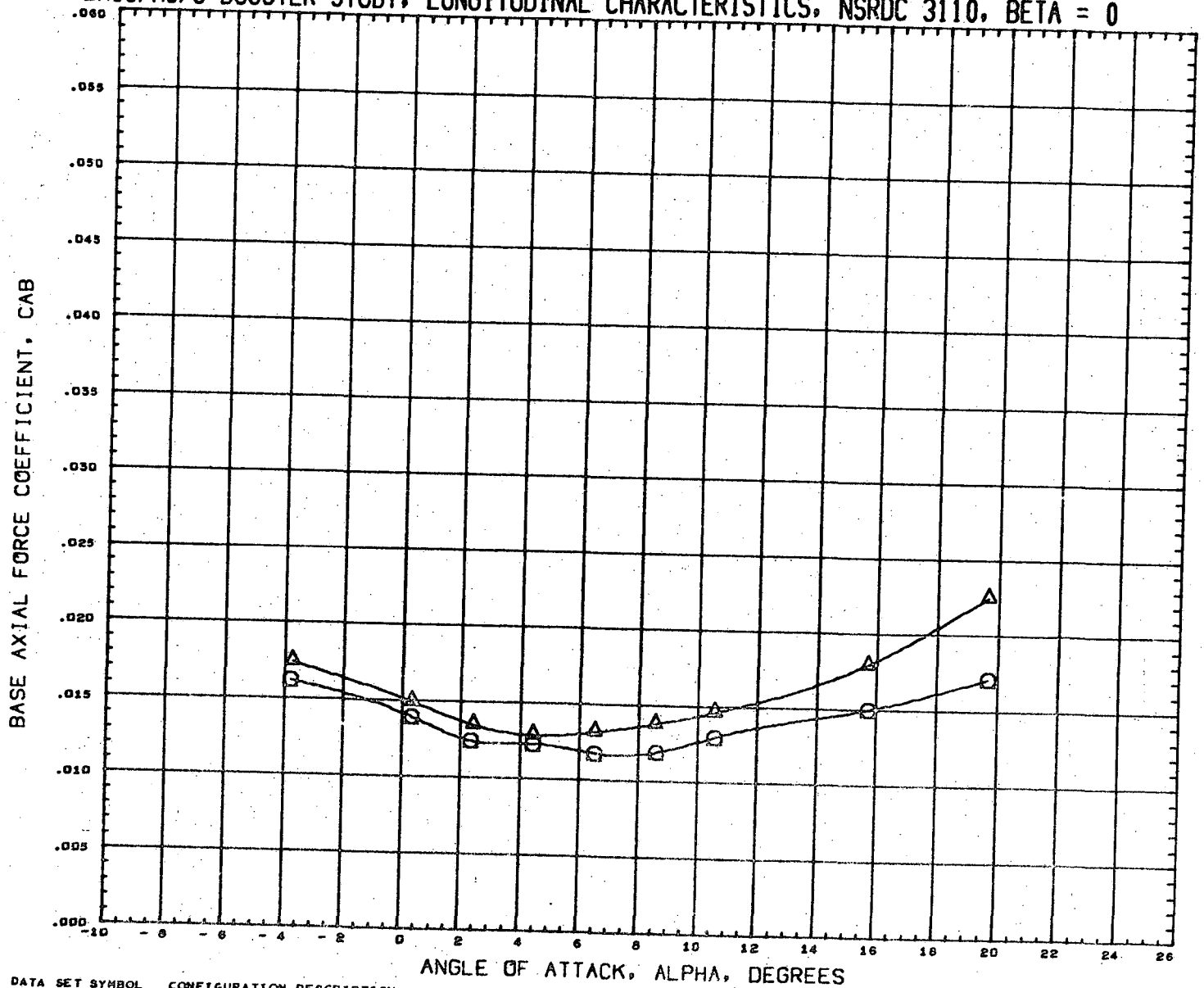


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2101) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2165) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

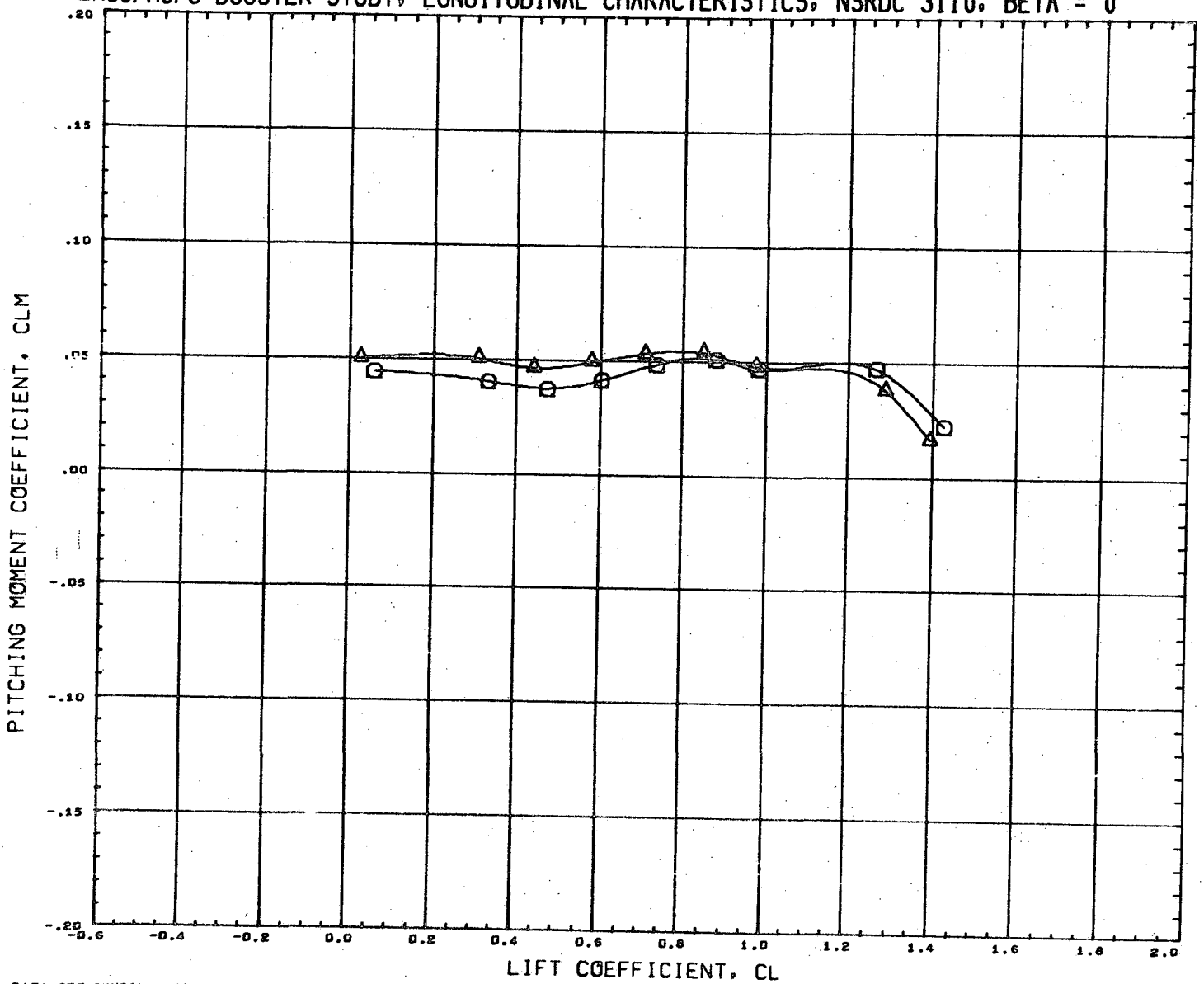


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2101)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2165)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

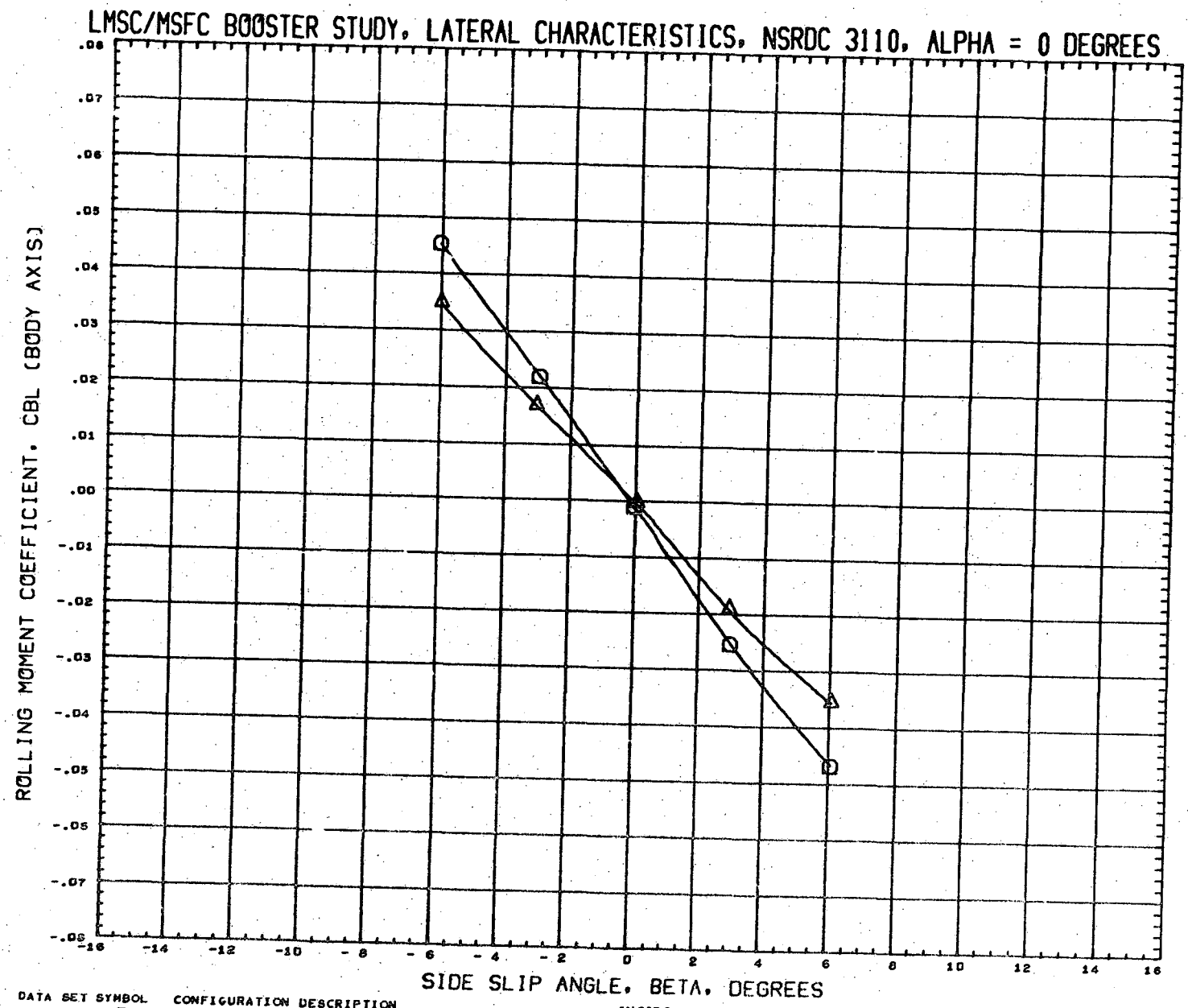
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2101)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2165)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2102)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2166)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

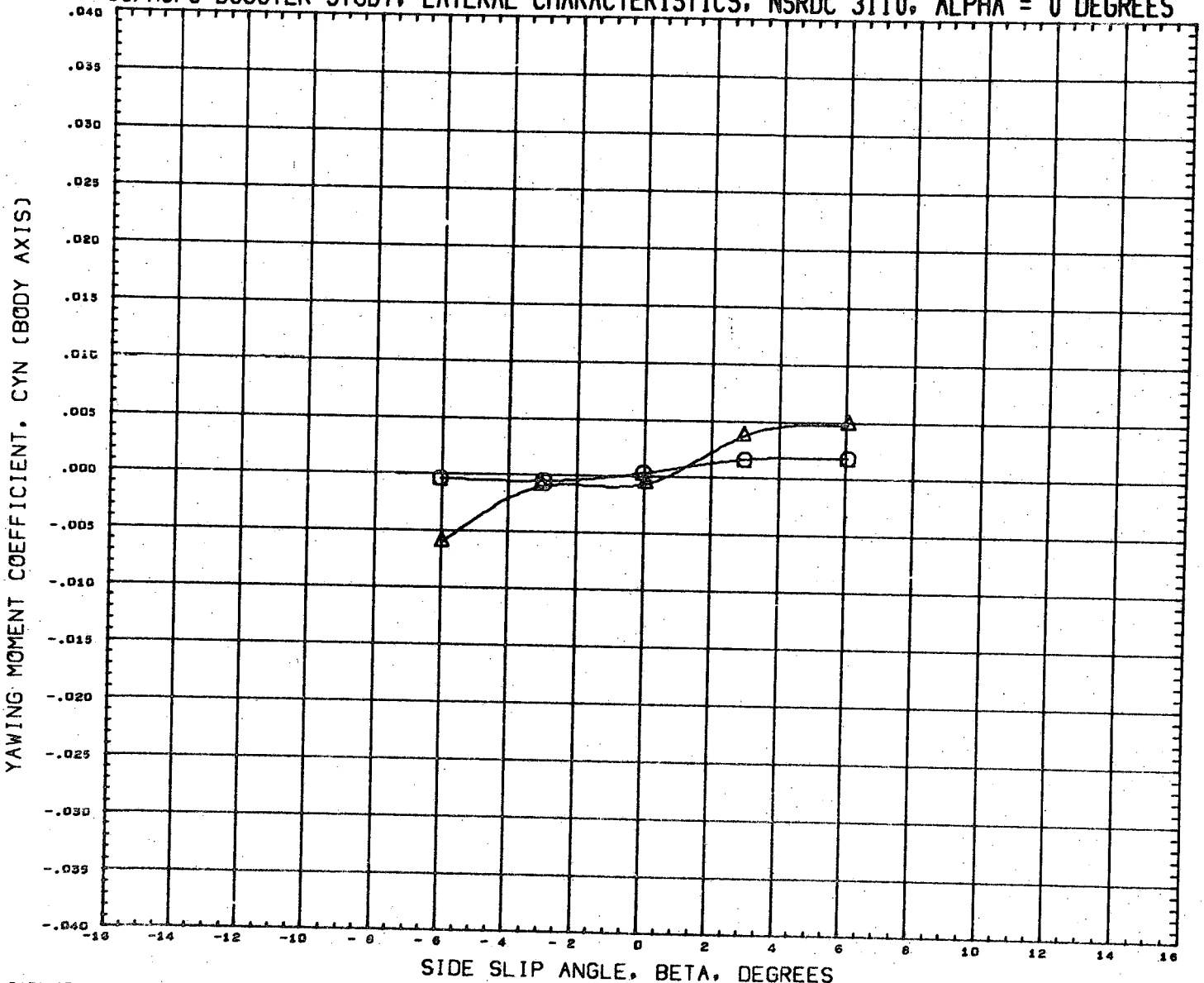
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

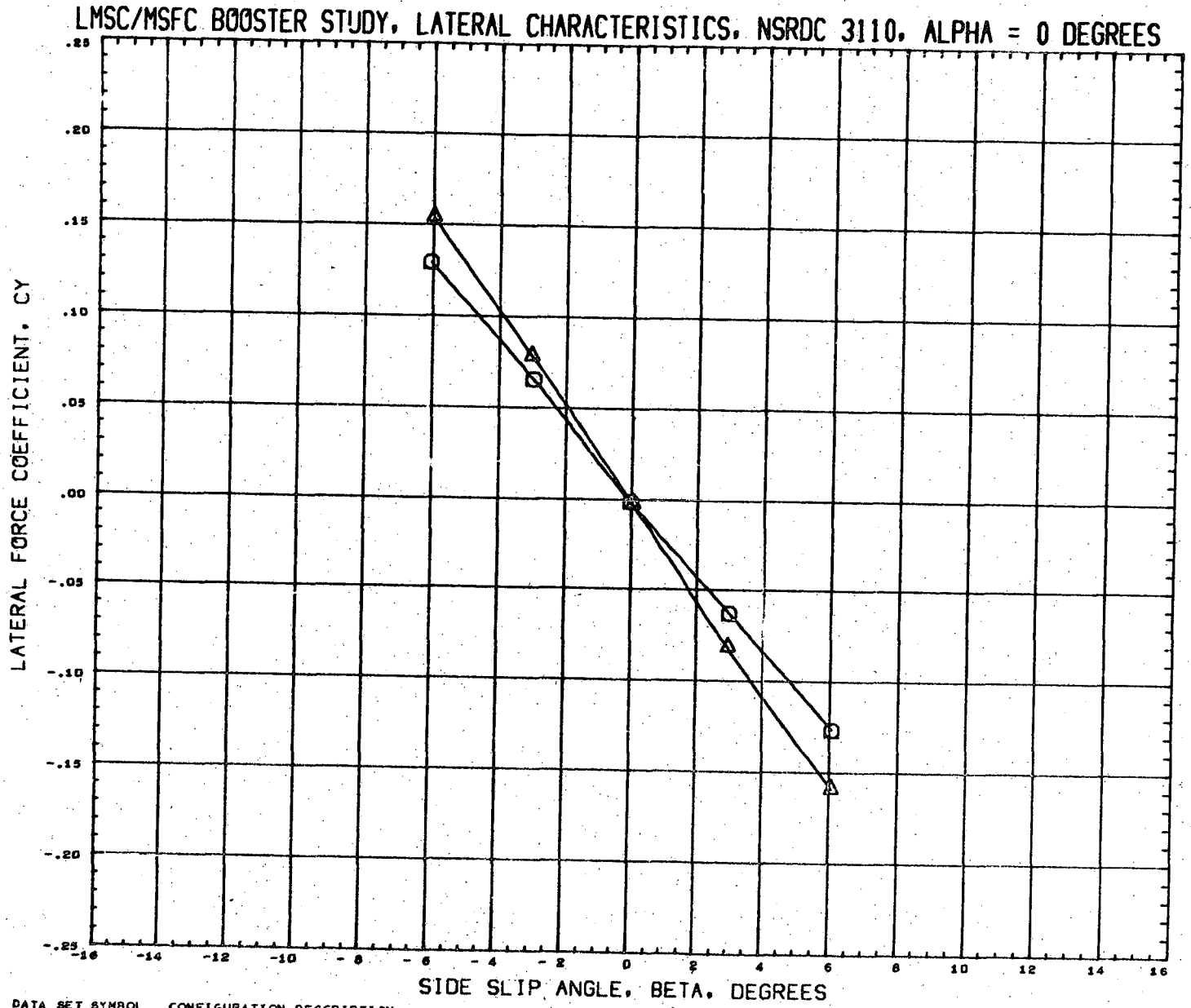
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2102)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2166)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000

MACH 0.380

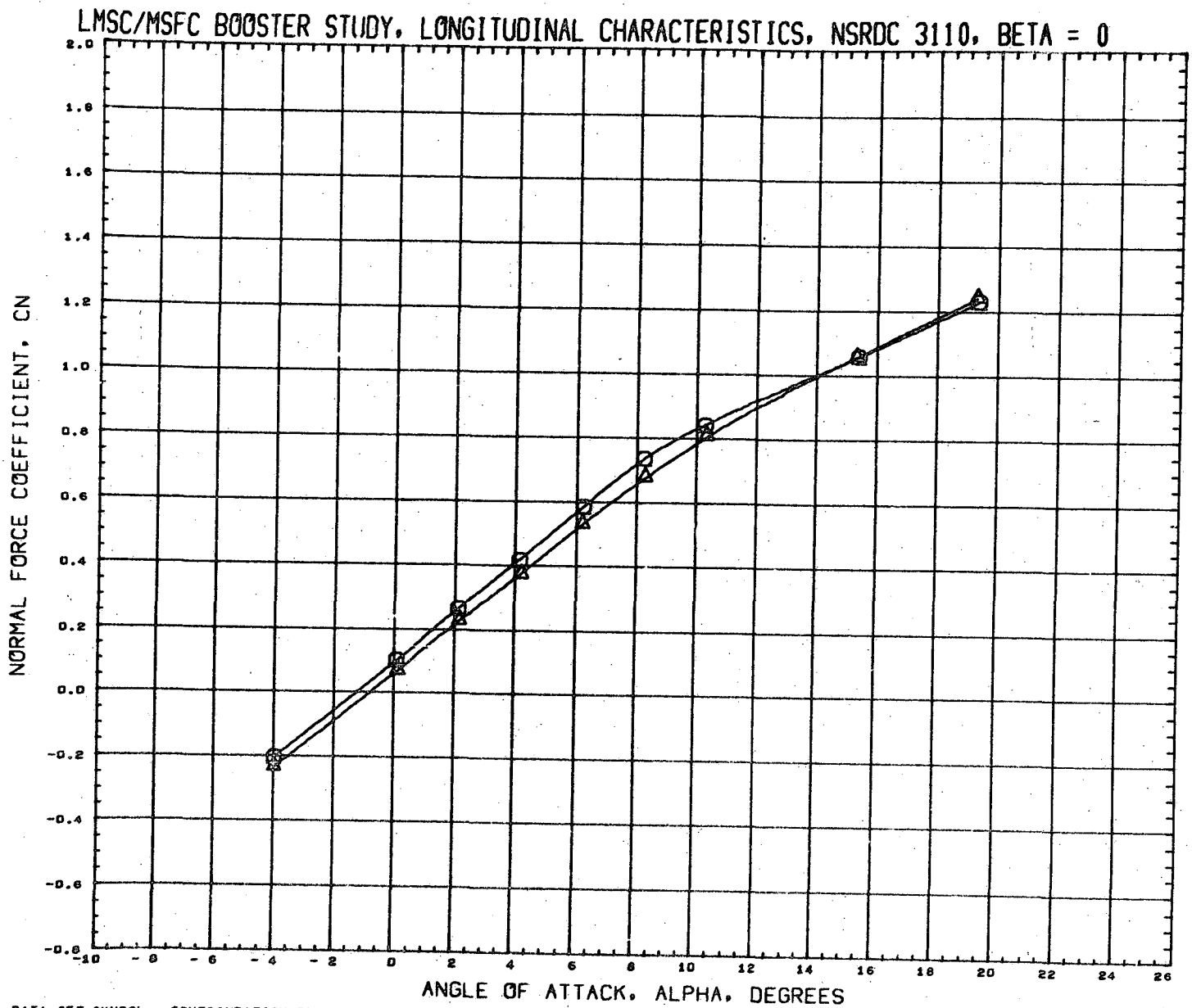
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2102)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2166)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



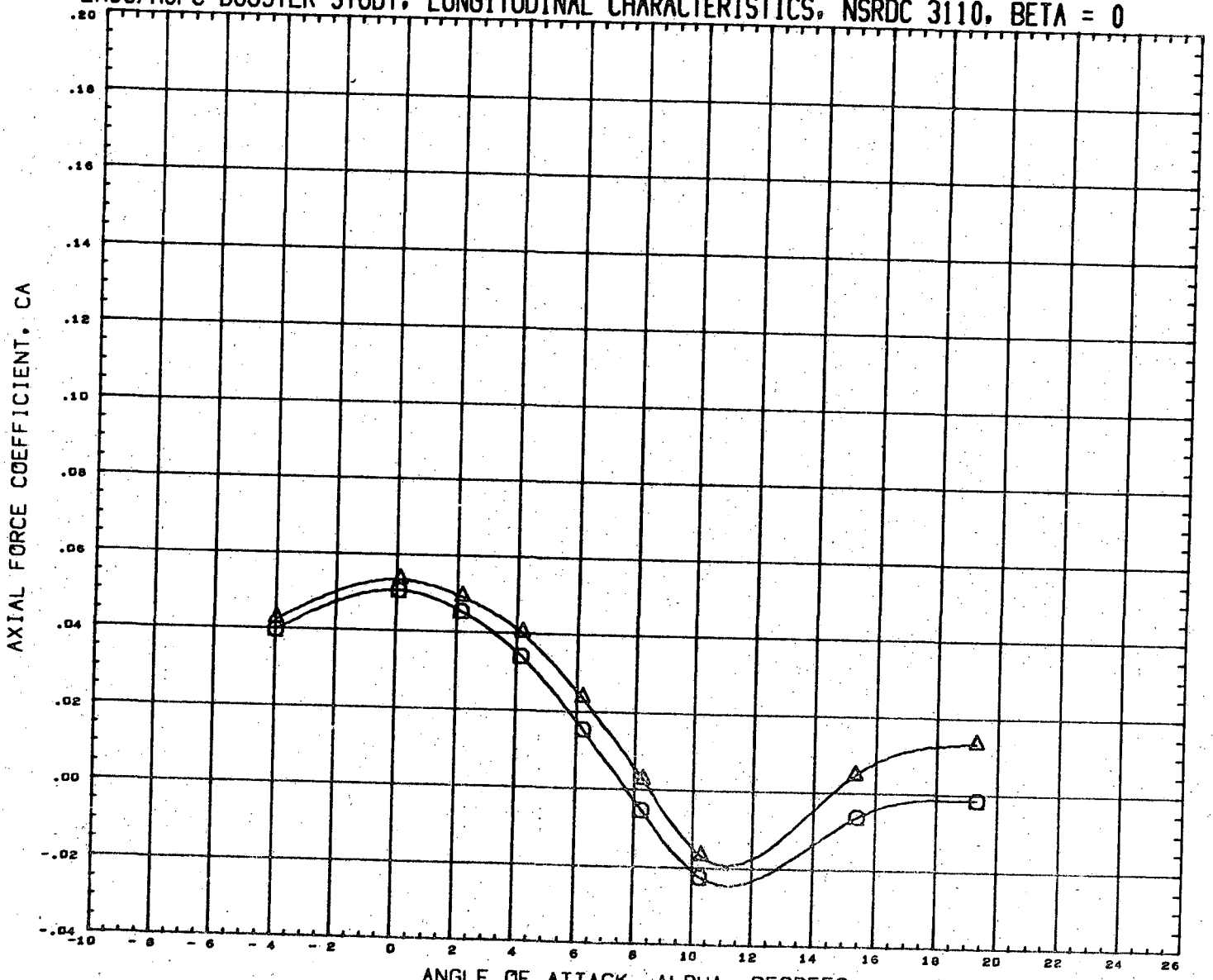
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2073)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2137)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



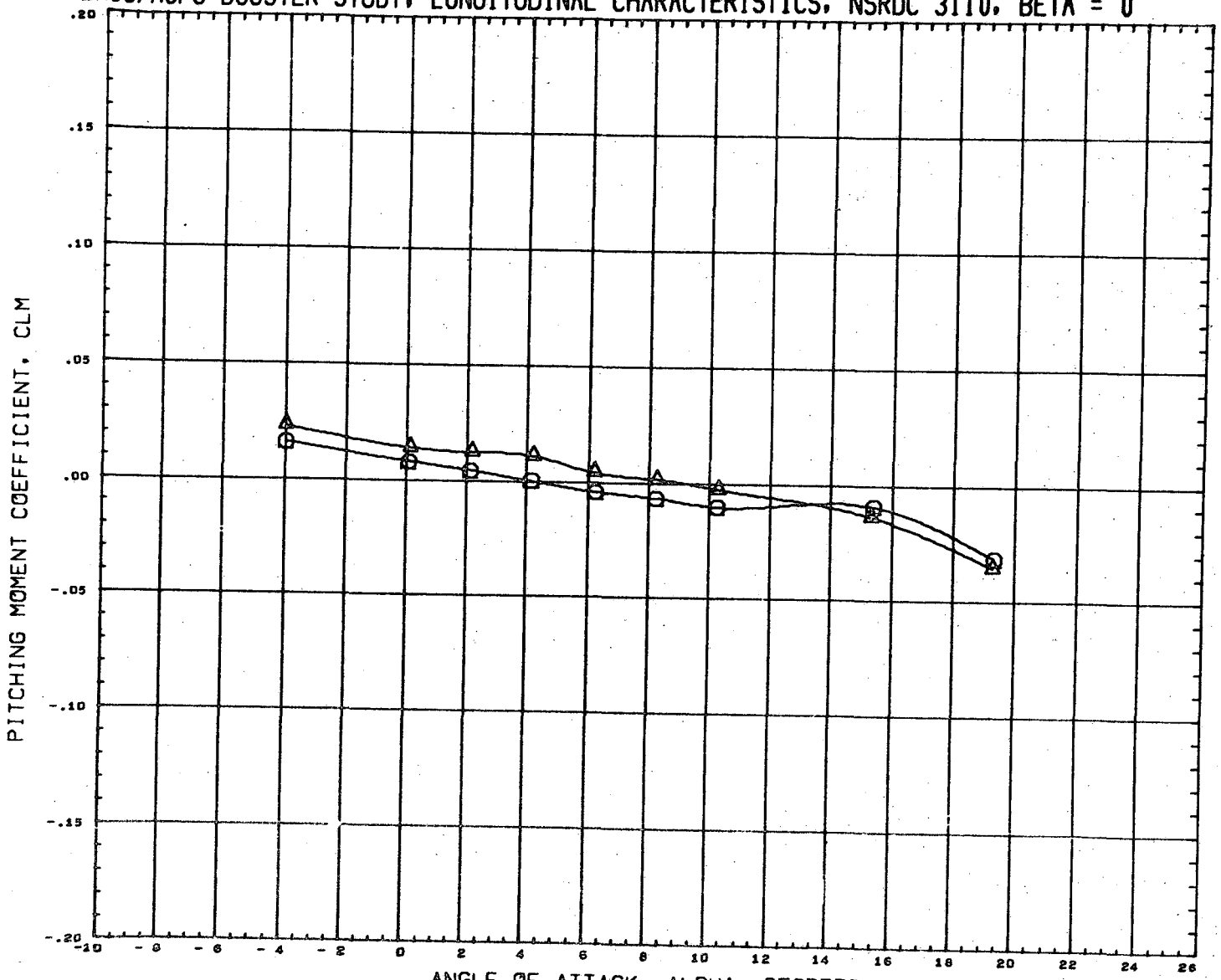
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2073)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2137)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.301

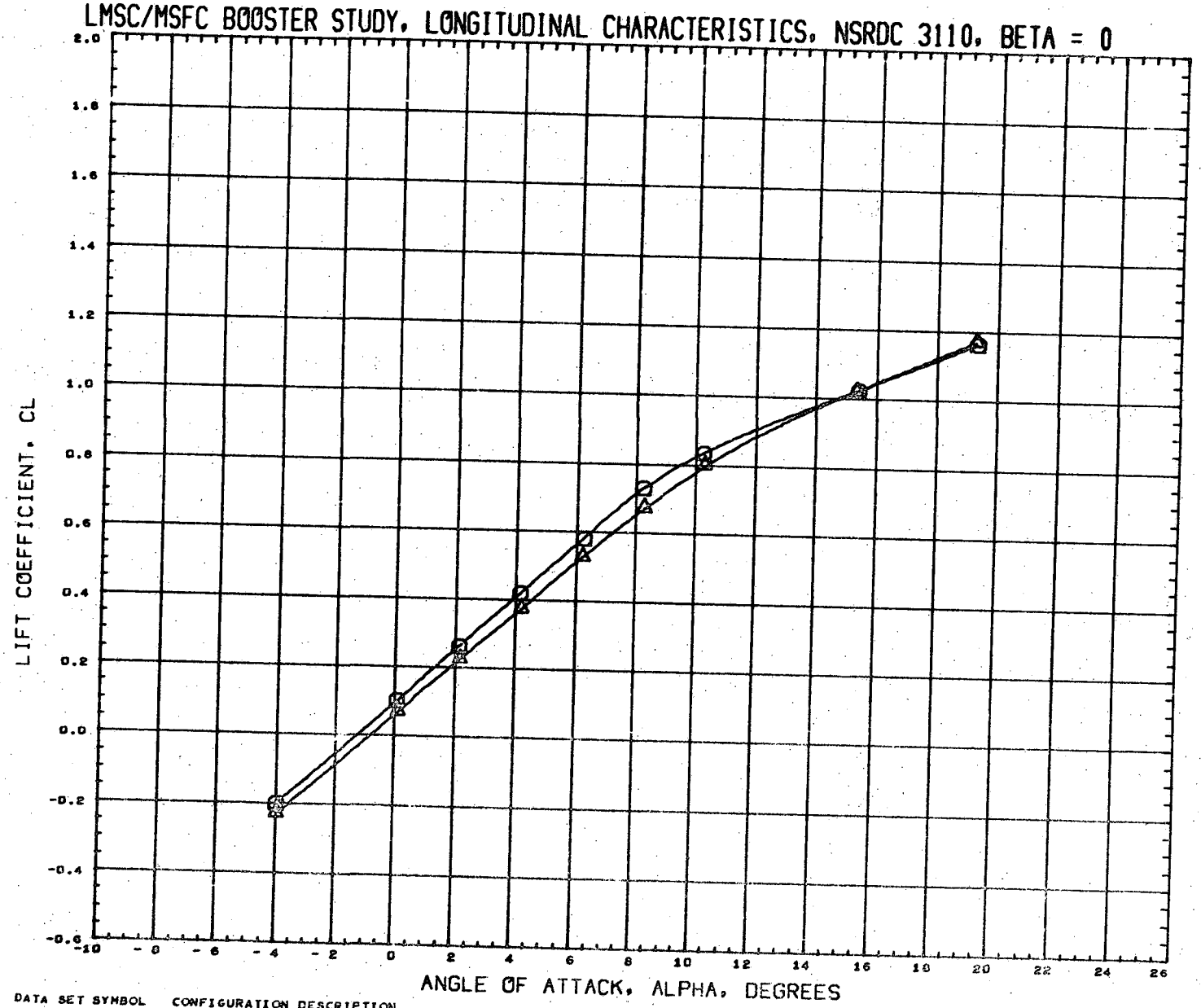
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2073)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2137)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



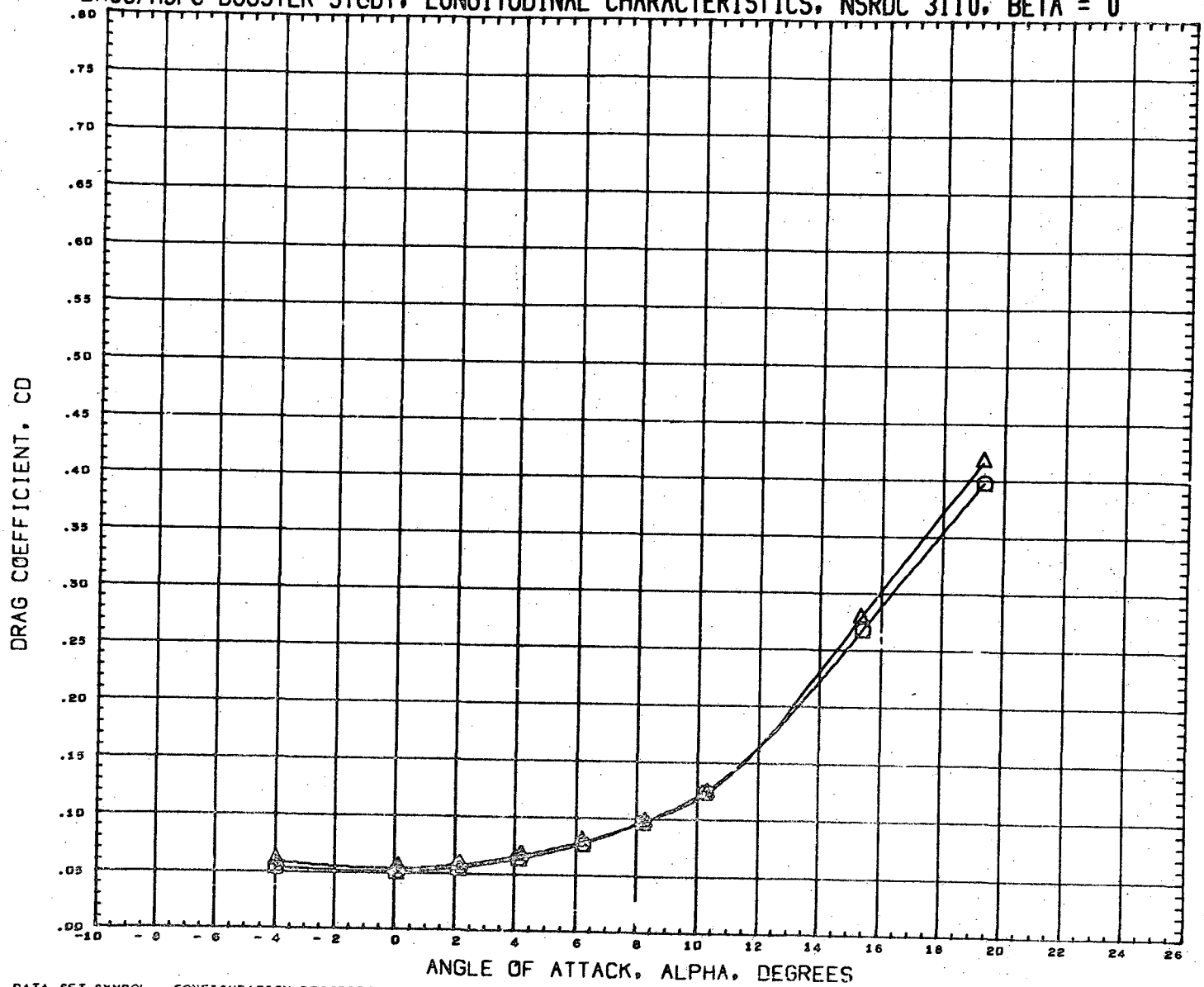
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2073)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2137)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

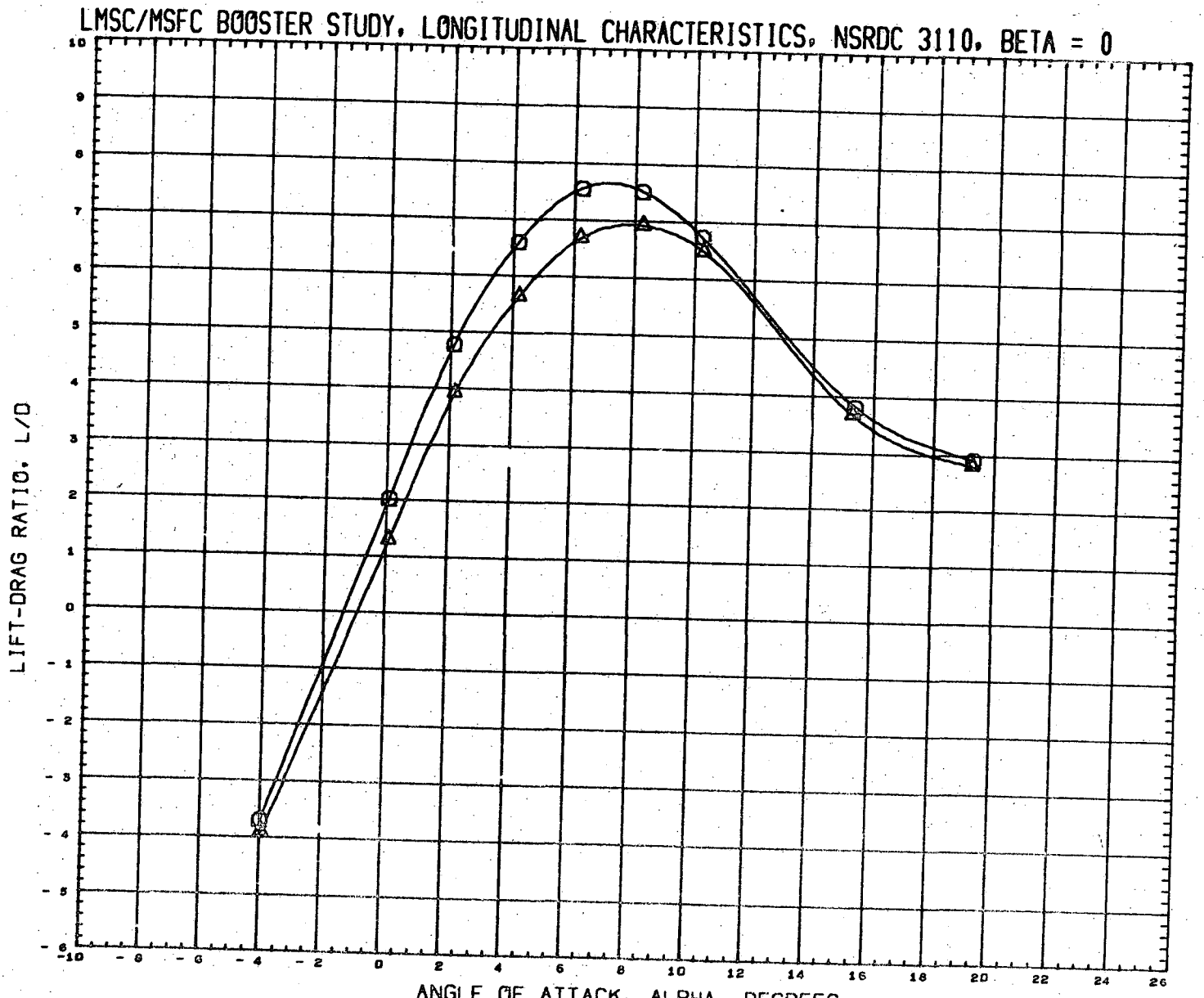


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2073)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2137)	△	NSRDC-3110,MSFC/LMSC BOOSTER 31C1F1W1V2D1	3.000	2.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



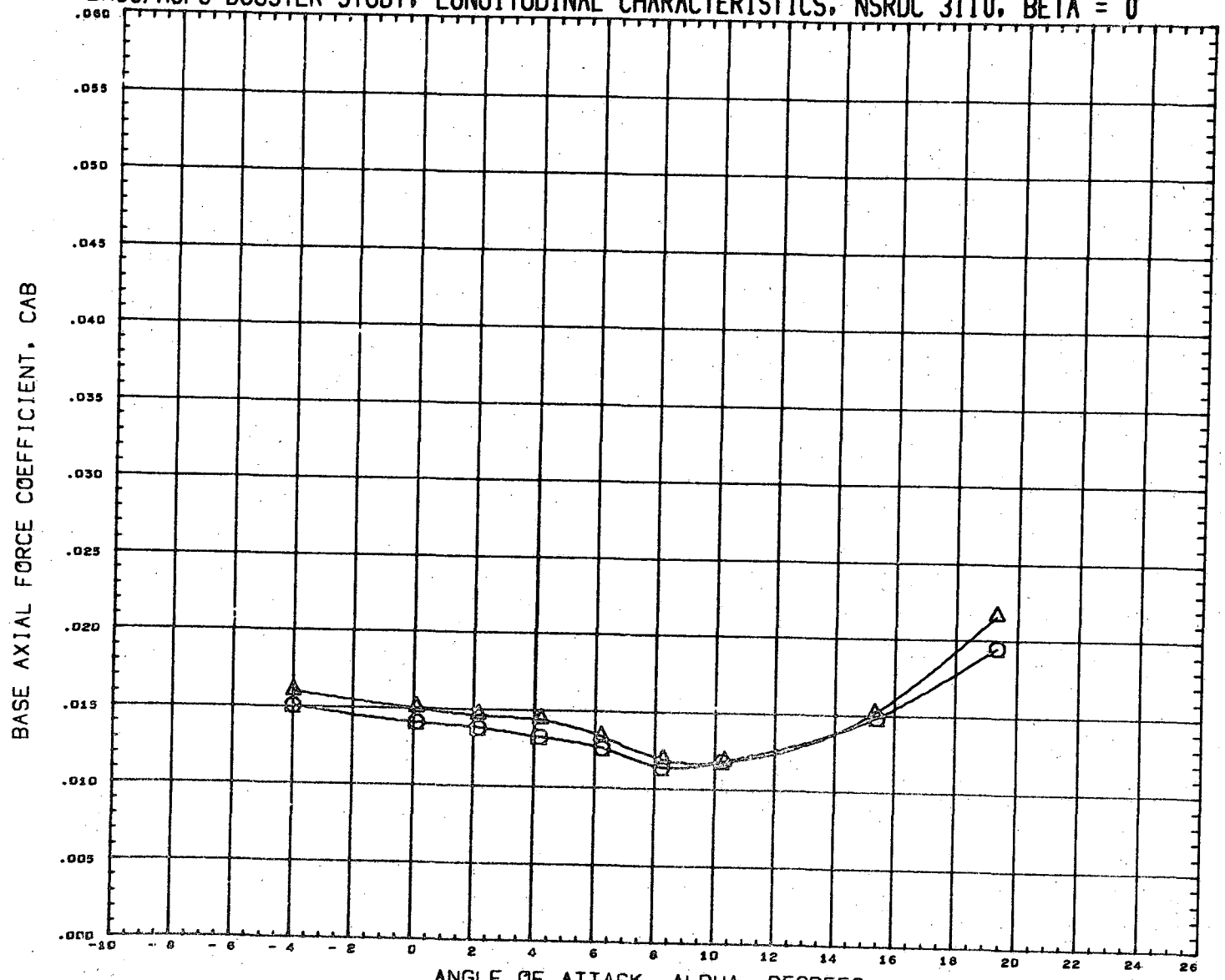
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2073)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2137)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



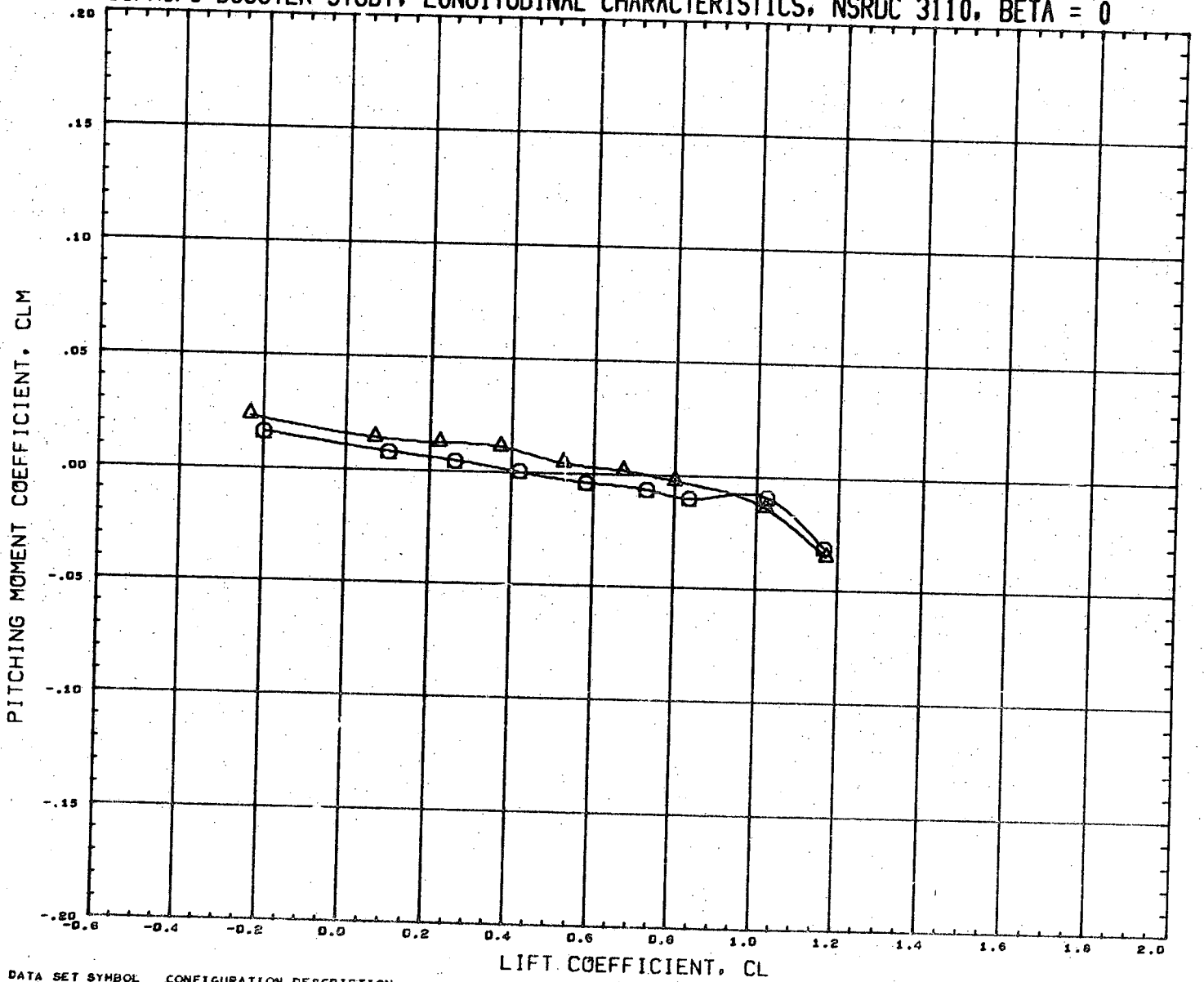
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2073)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2137)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

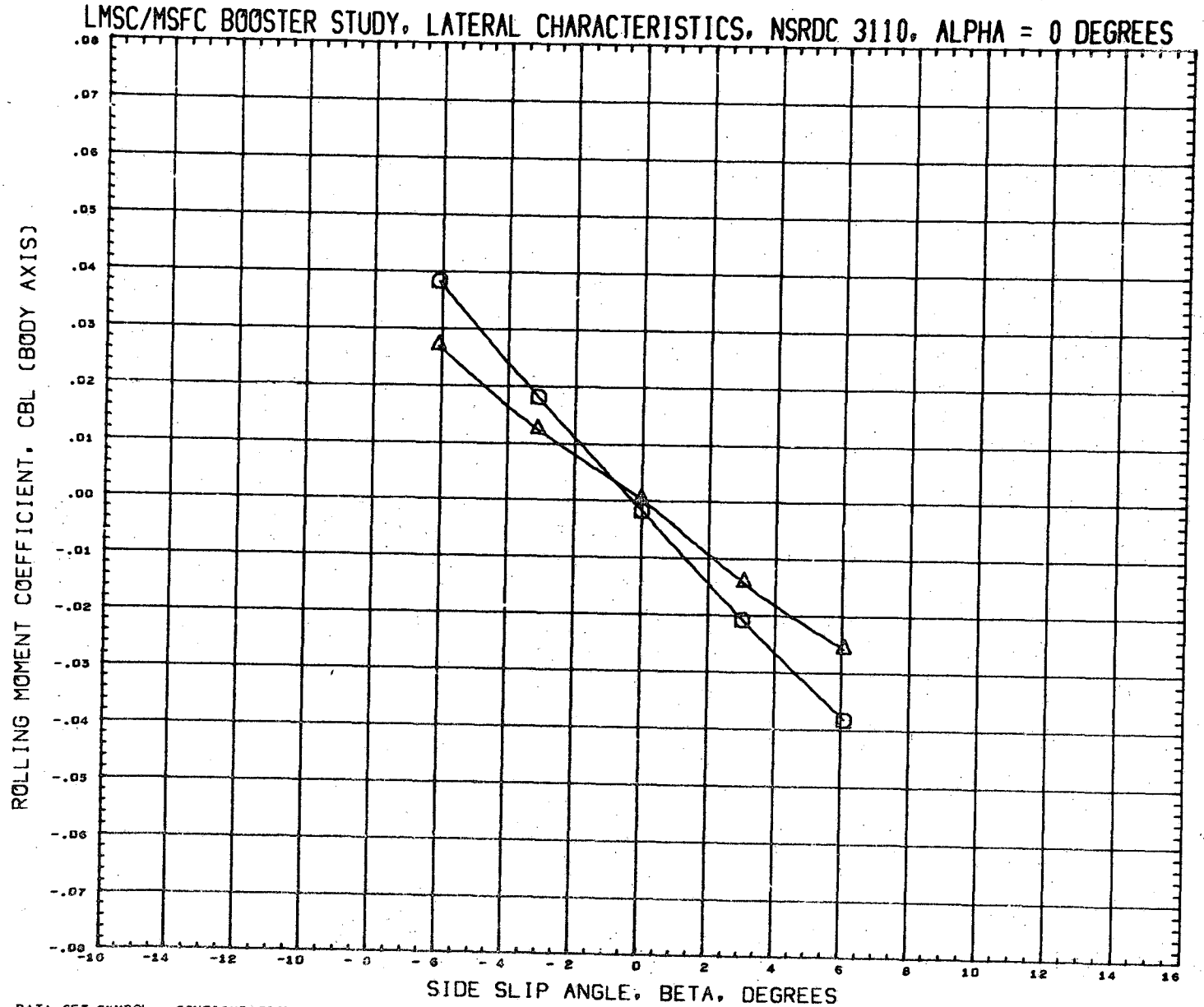
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2073)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2137)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000

MACH 0.381

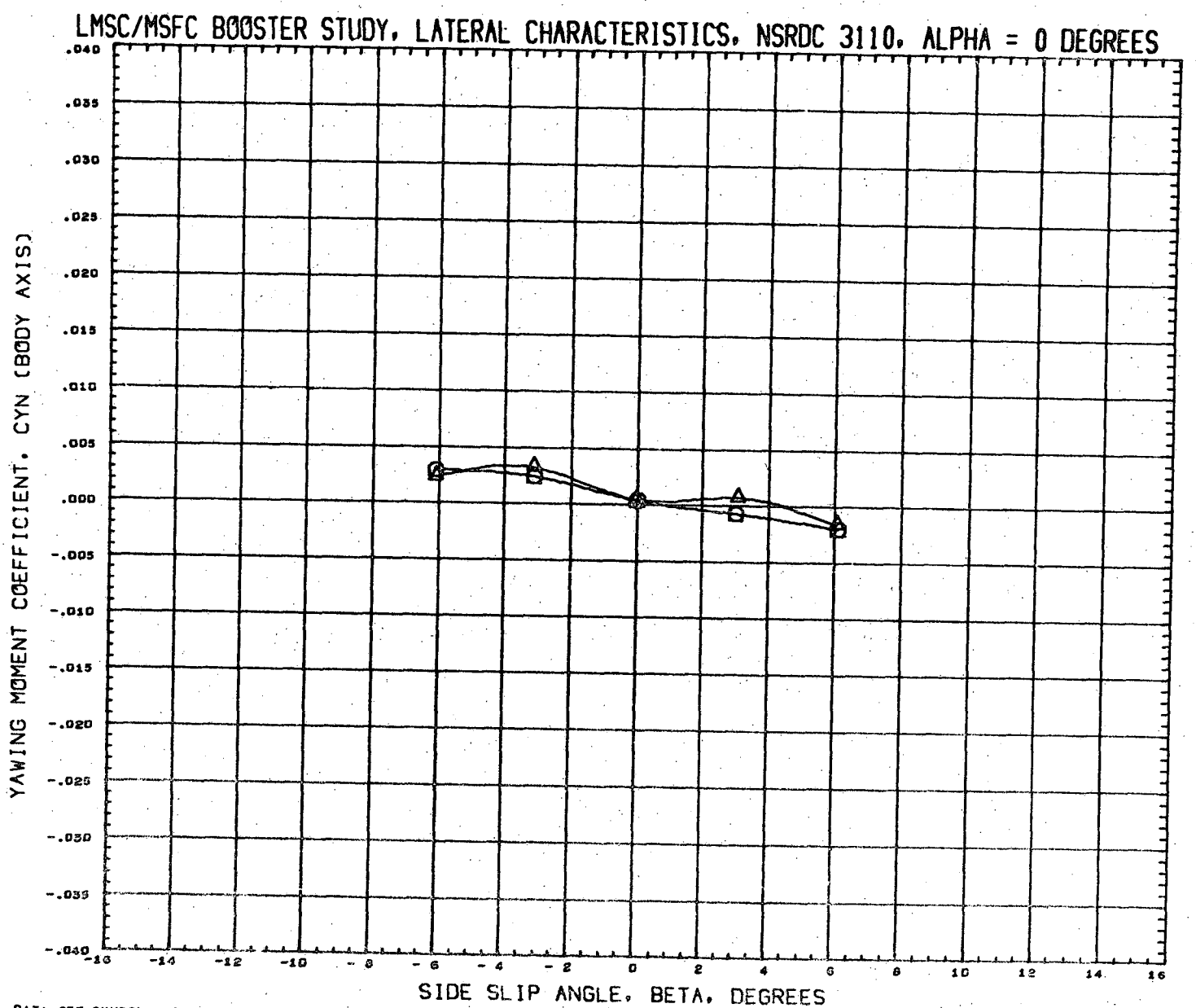
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2074)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2138)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000

MACH 0.381

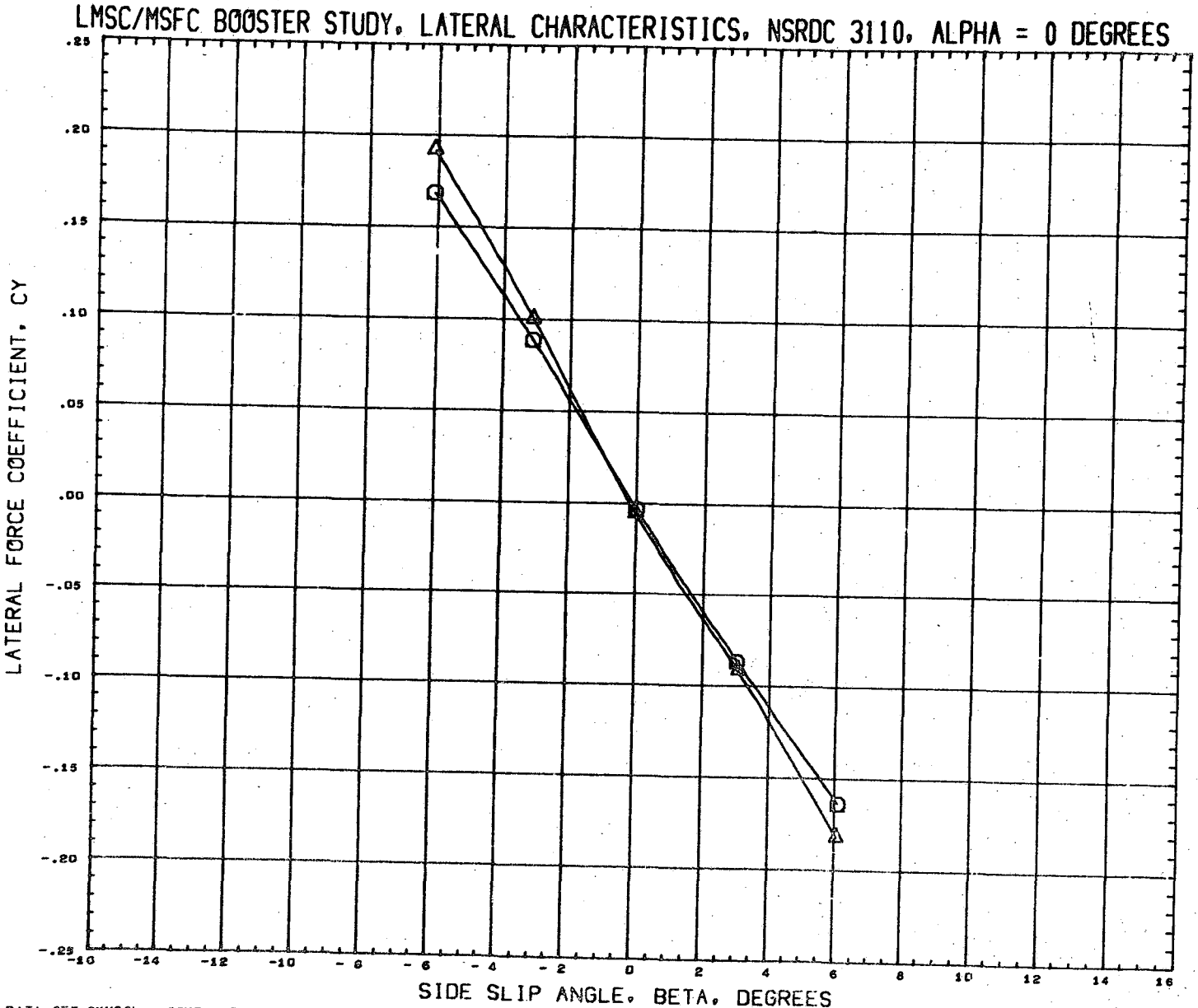
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2074)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2138)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

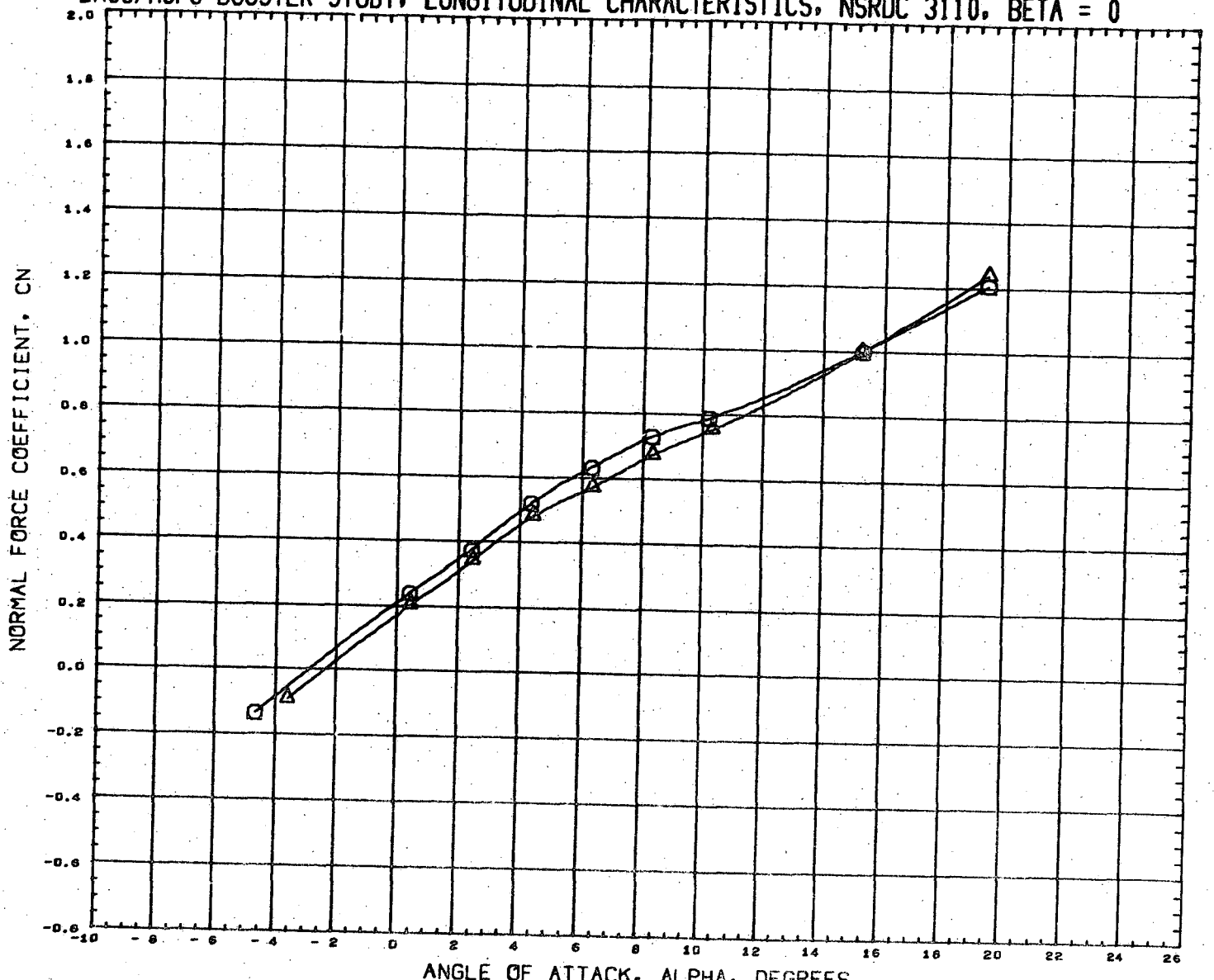


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2074)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2136)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



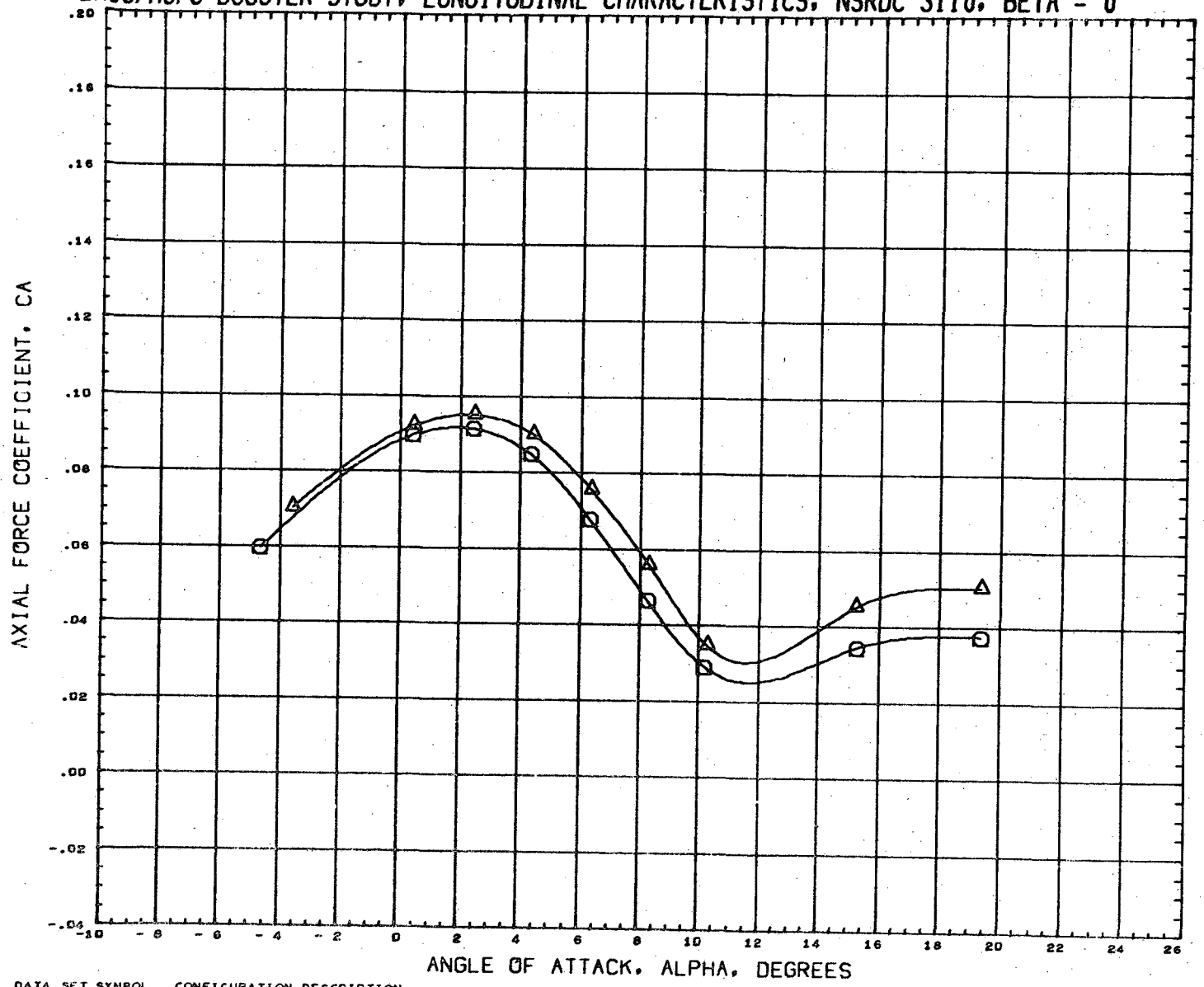
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2077)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2141)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.360

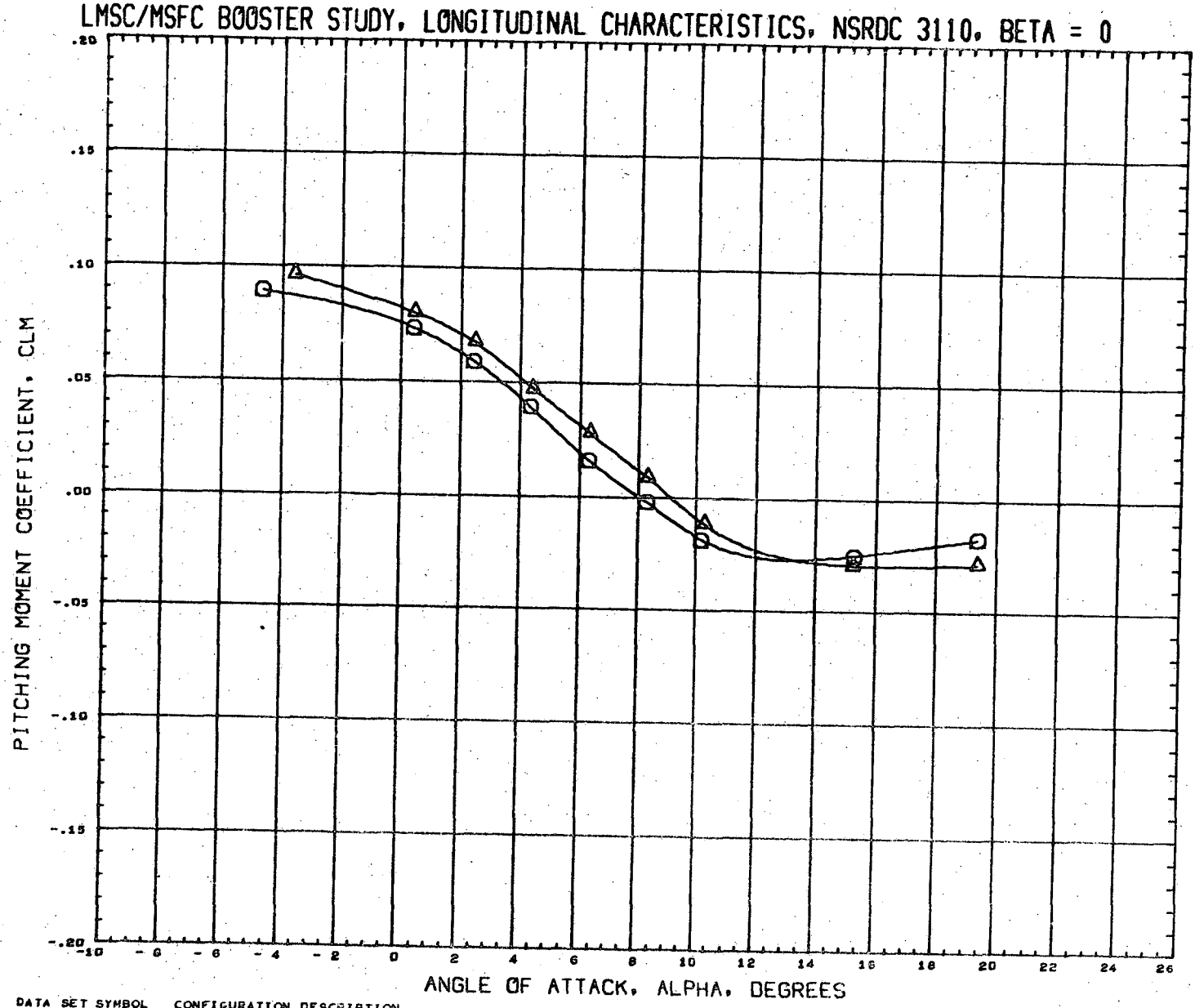
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2077)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2141)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000

MACH 0.300

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



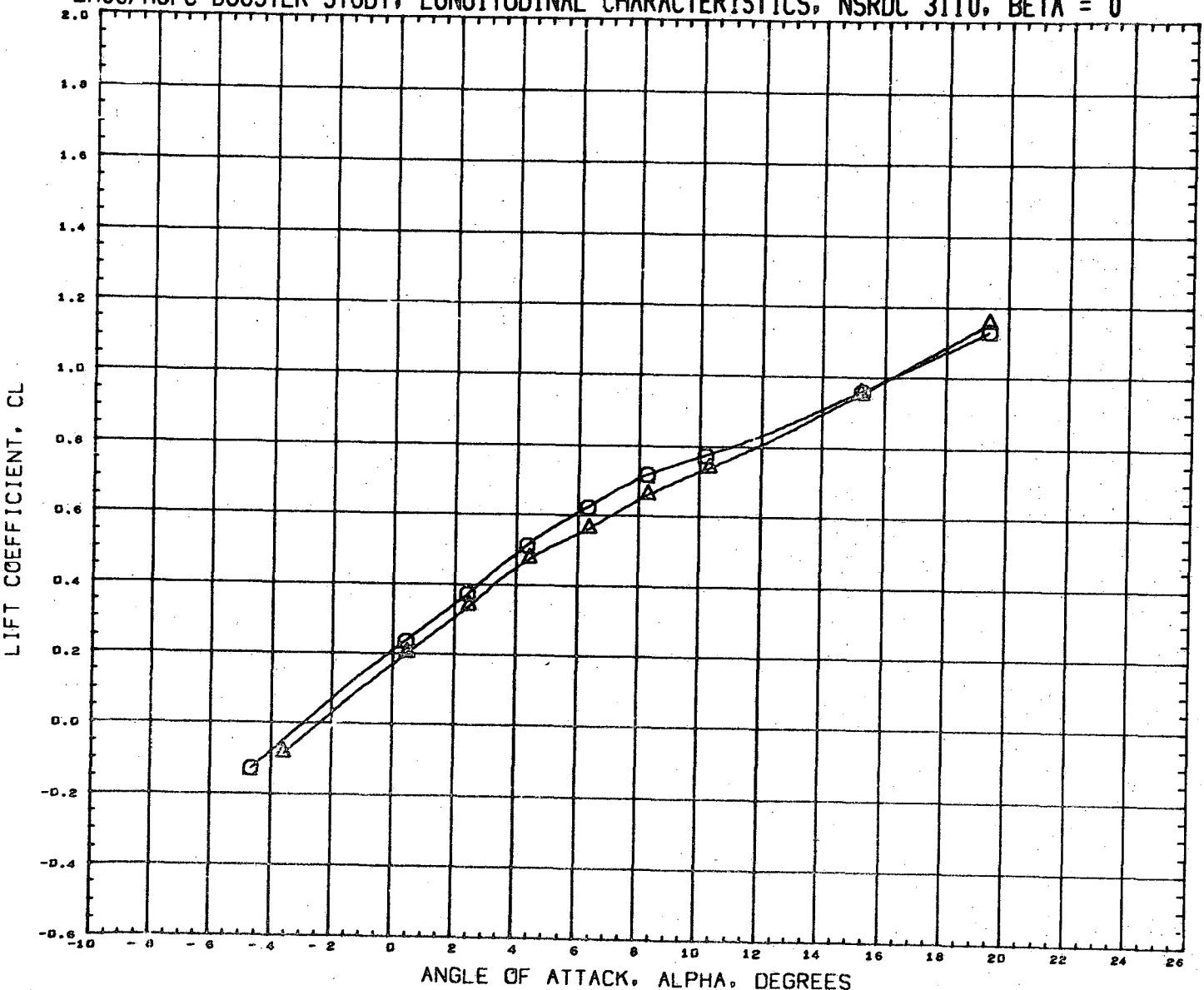
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2077)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2141)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

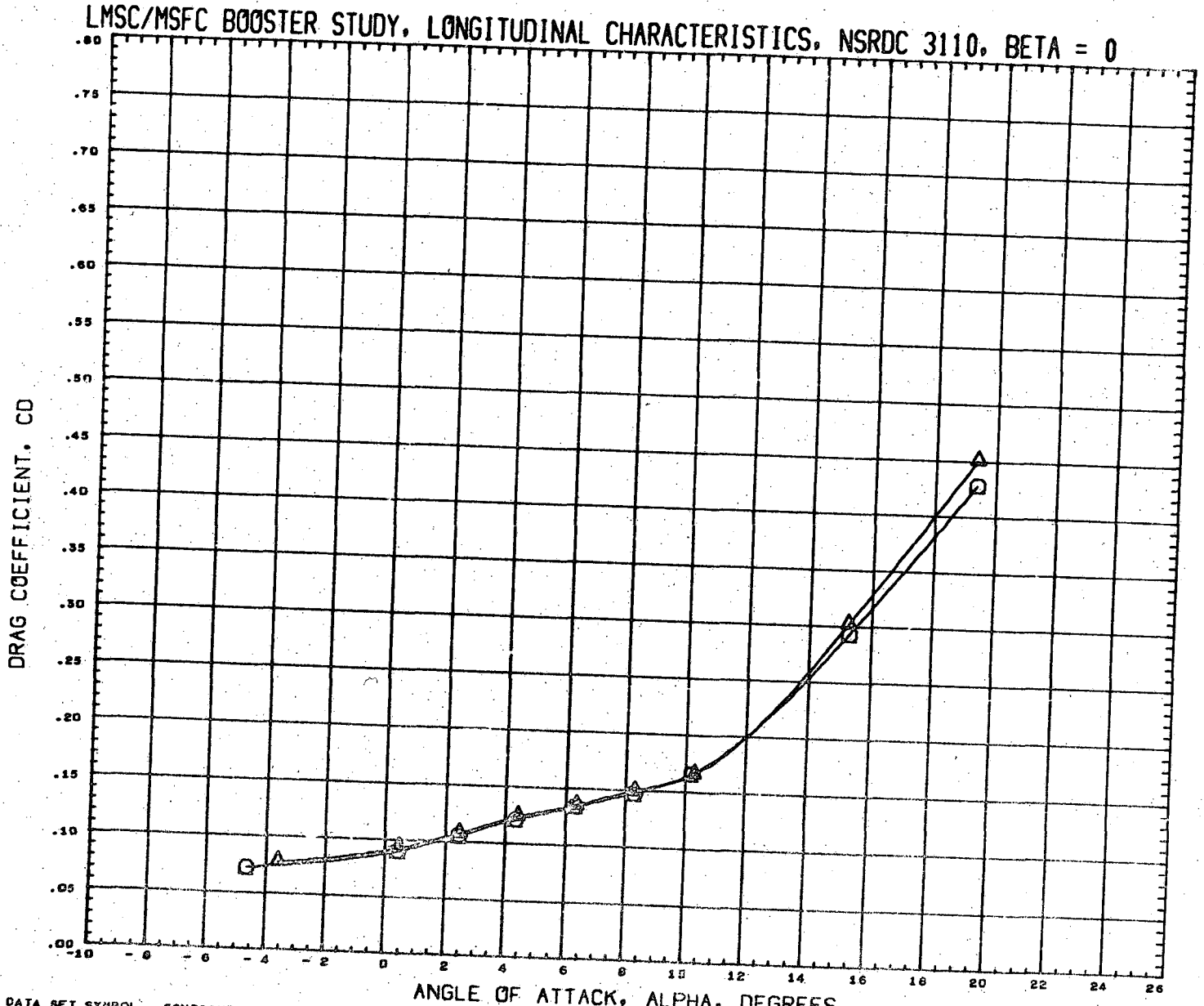
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2077)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2141)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



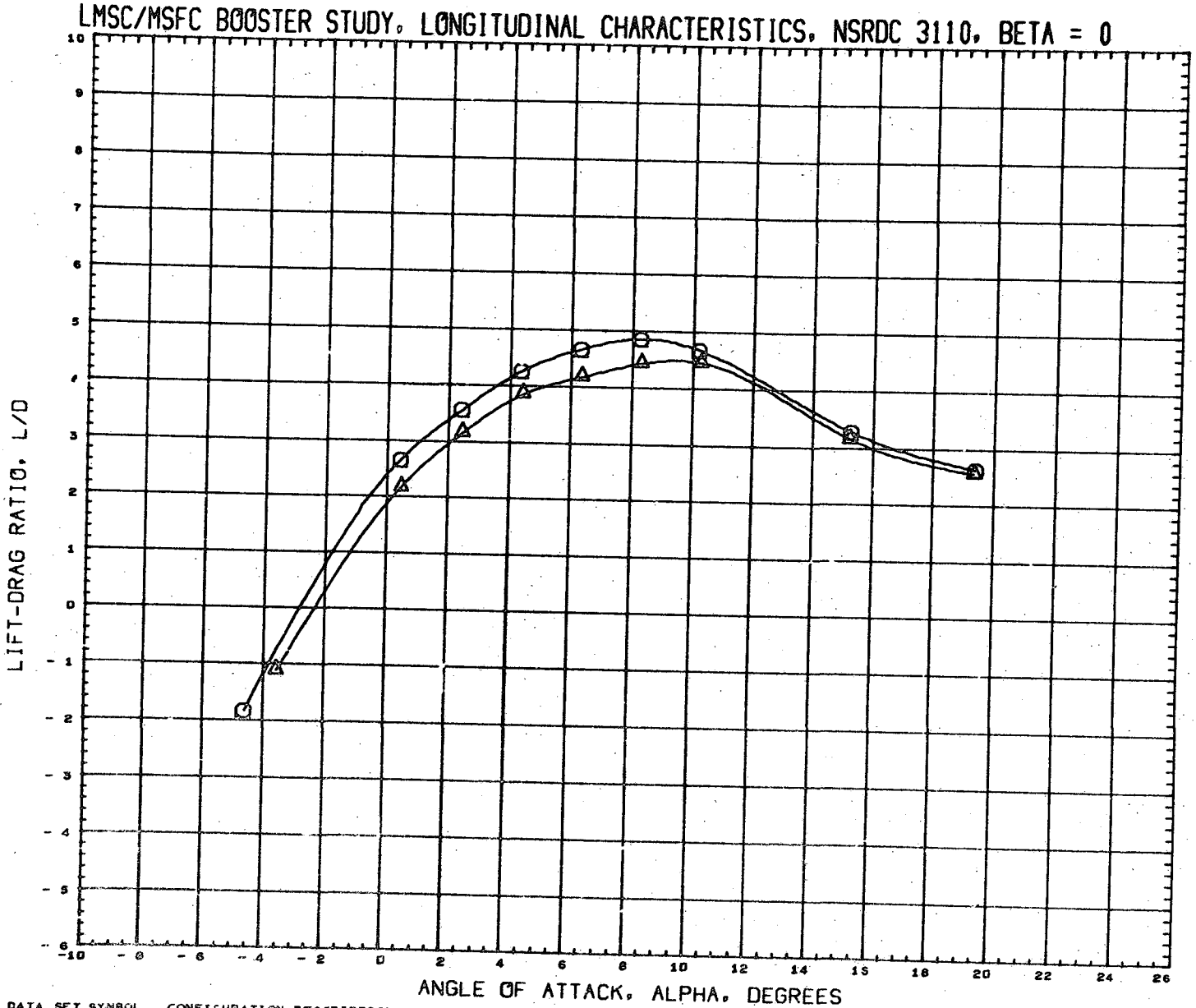
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2077)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2141)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

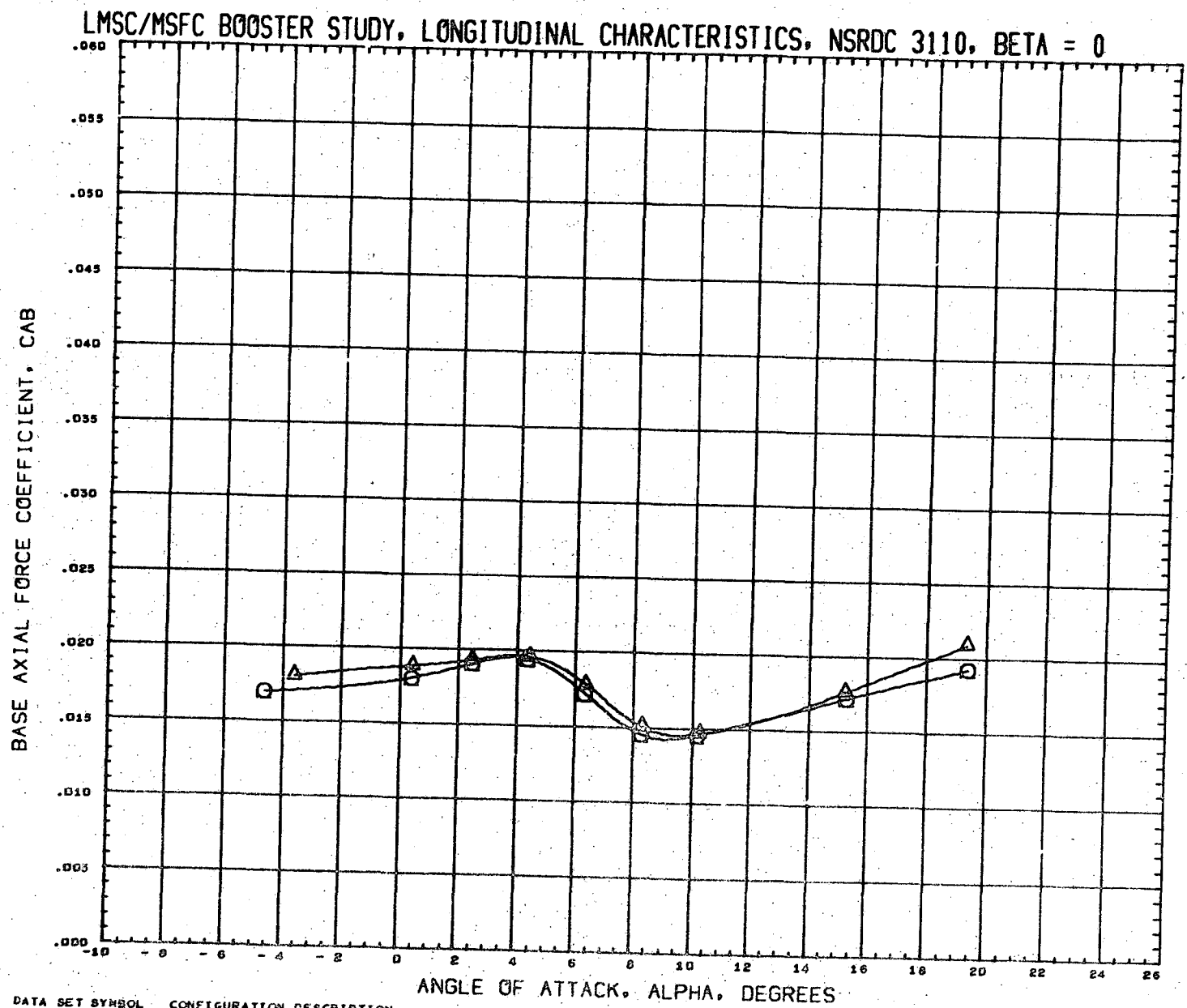
MACH 0.360



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2077)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2141)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



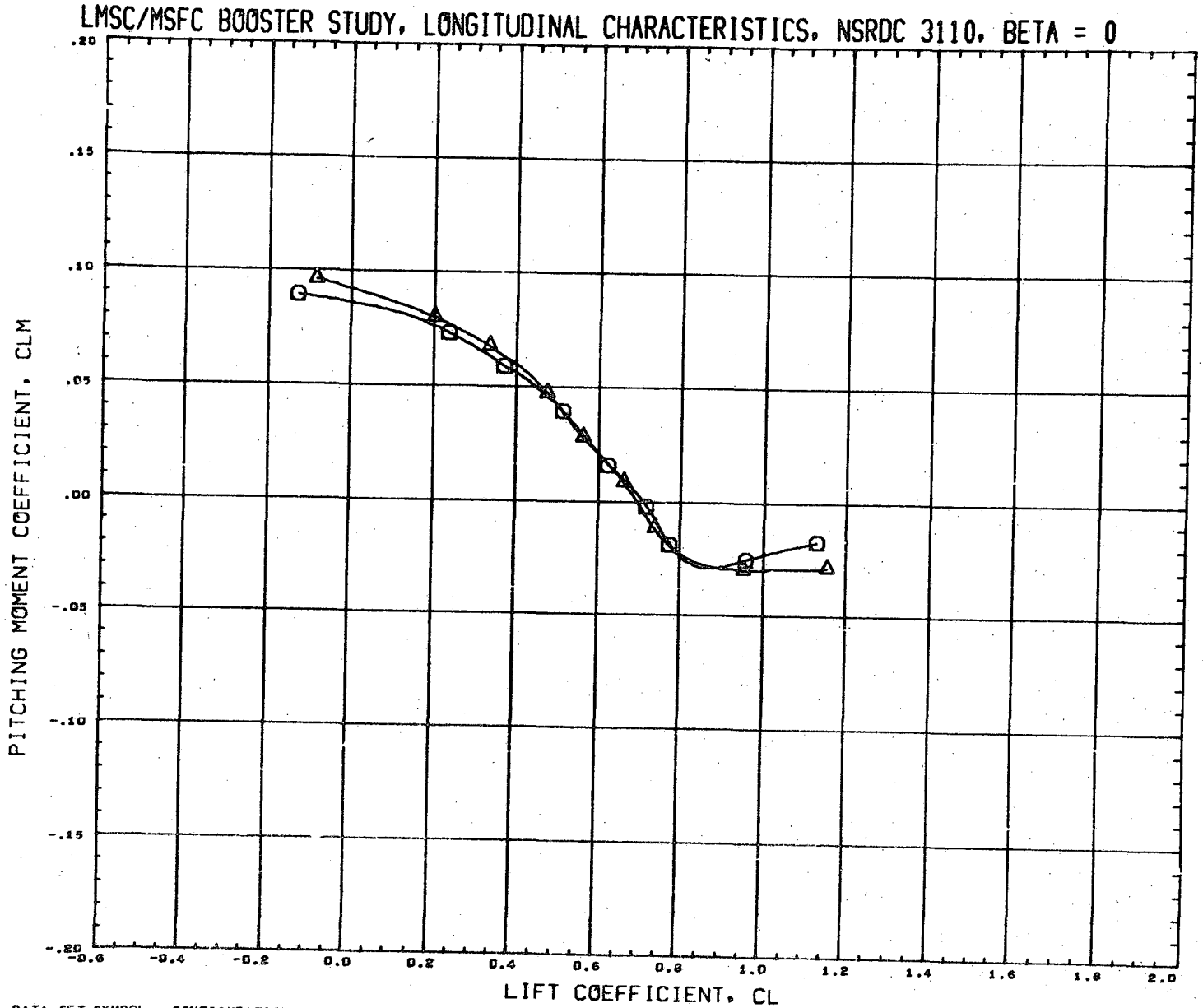
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2077)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1
(RN2141)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

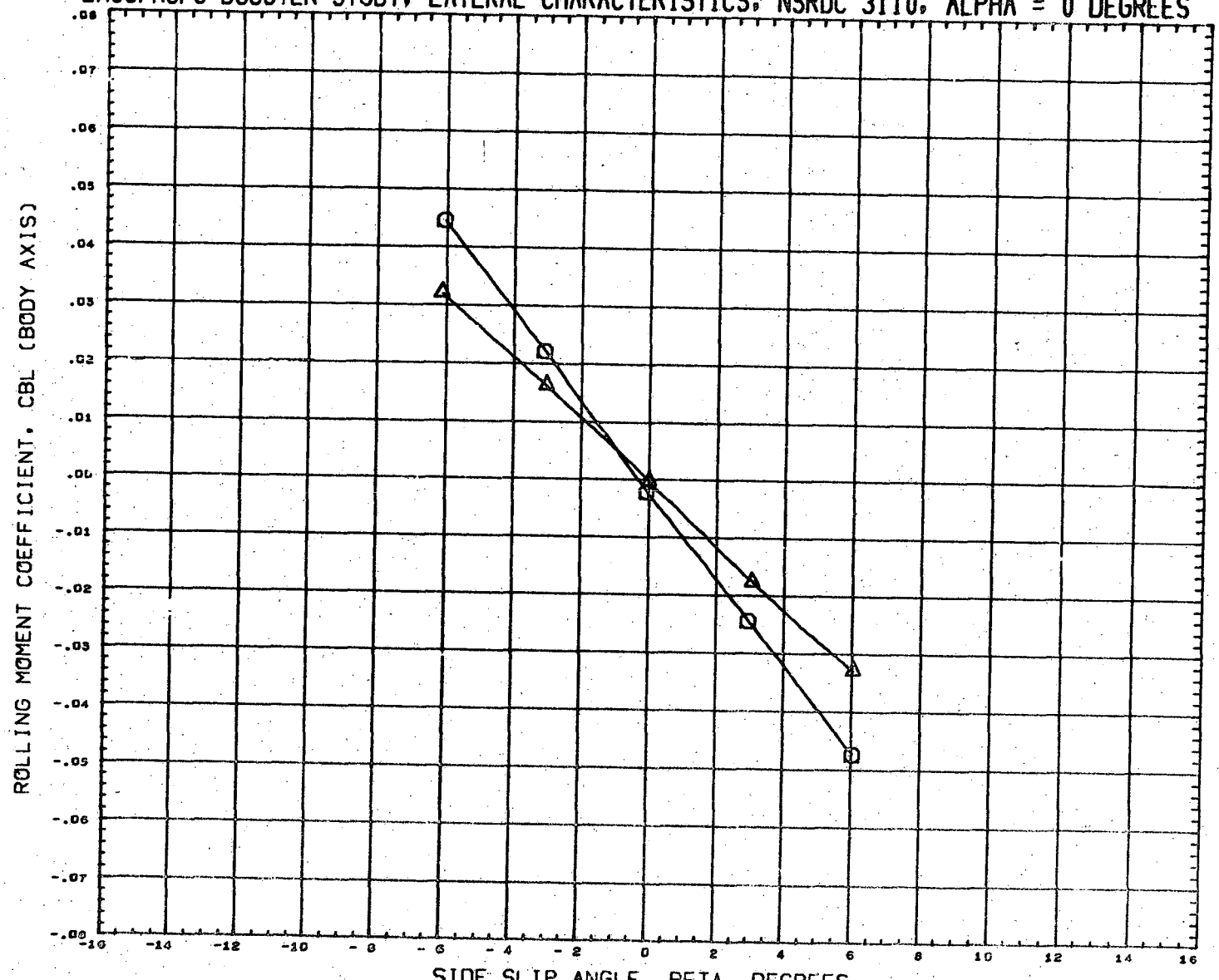


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2077)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2141)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

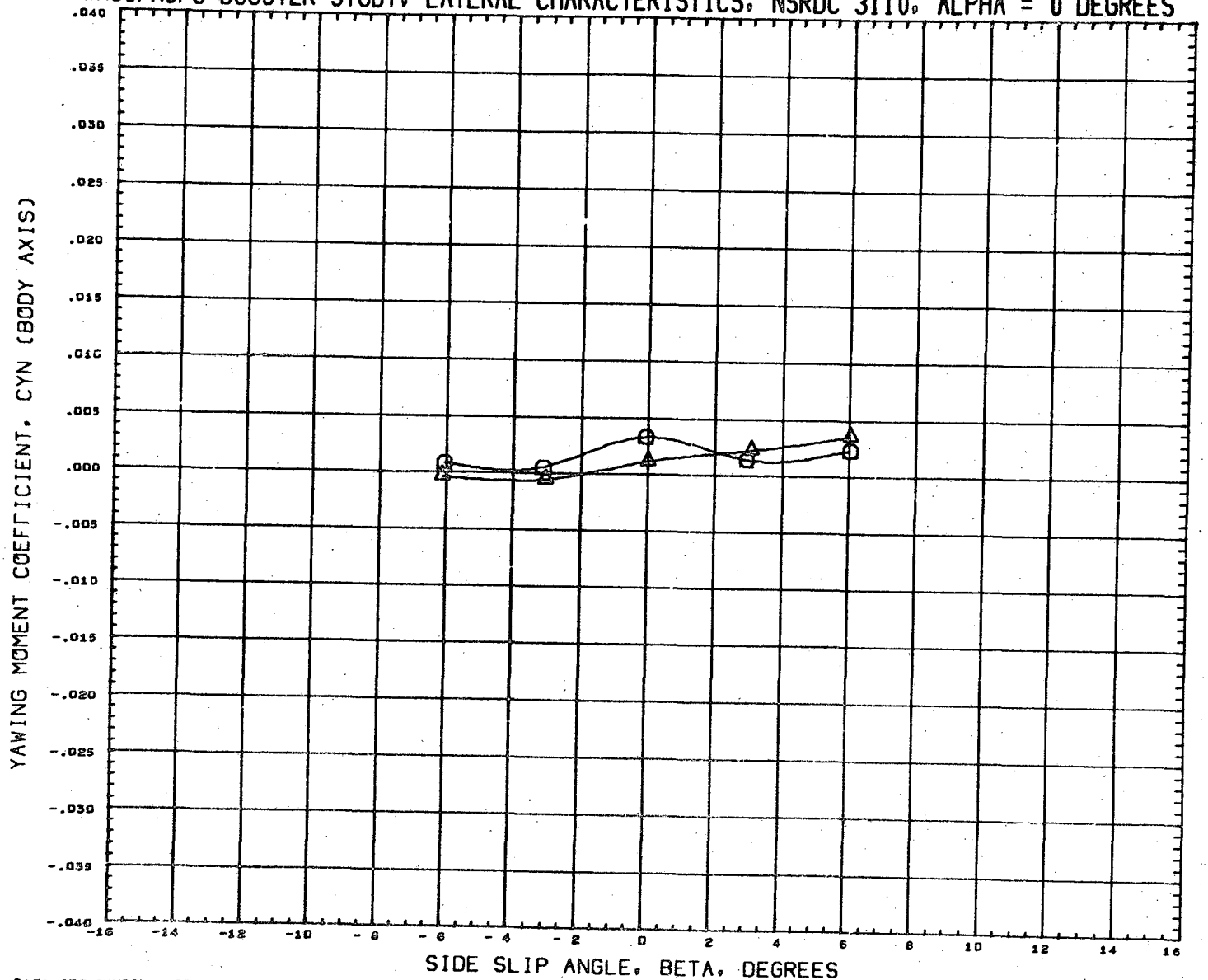


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2078)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2142)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

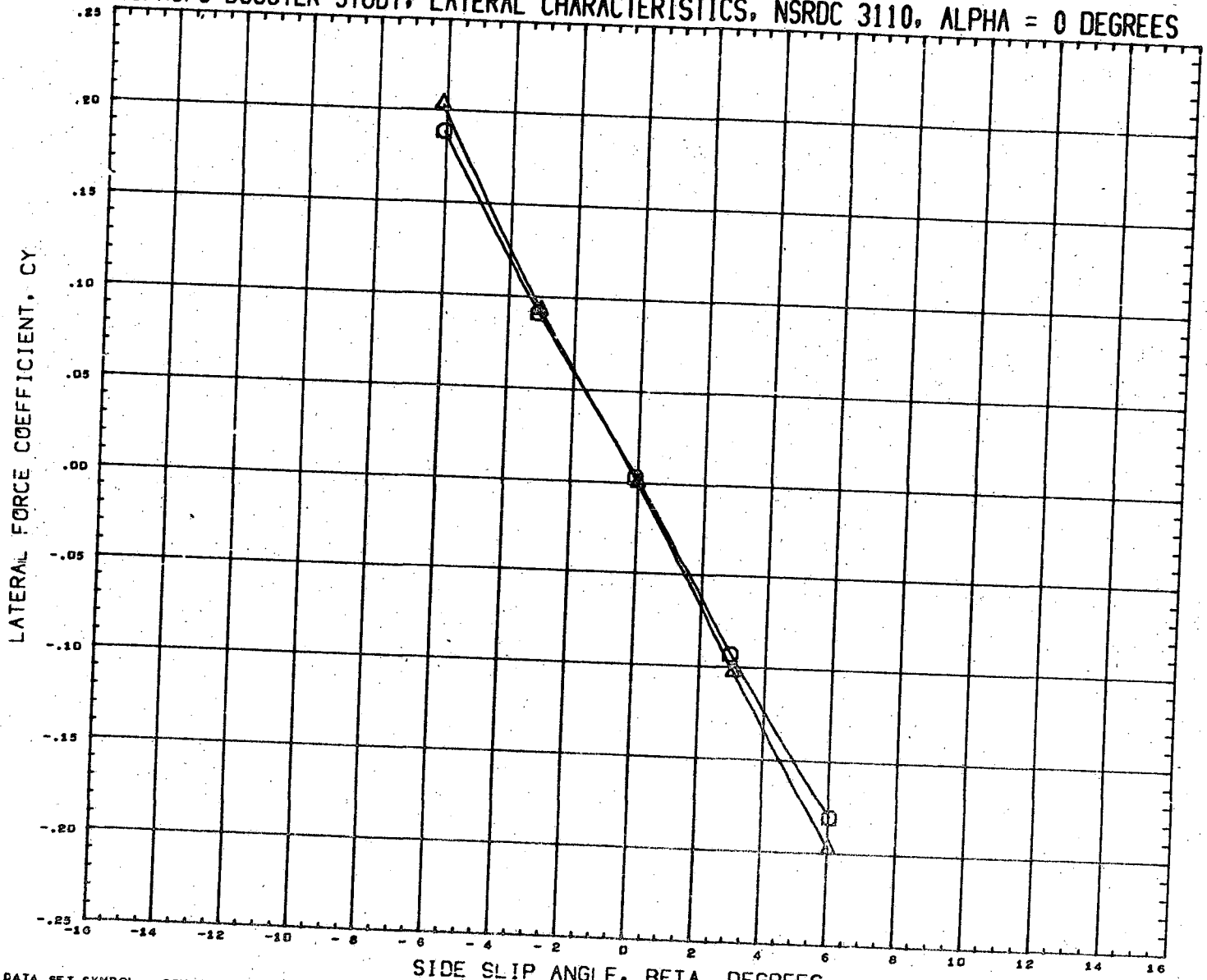


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2078)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2142)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000

MACH 0.580

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

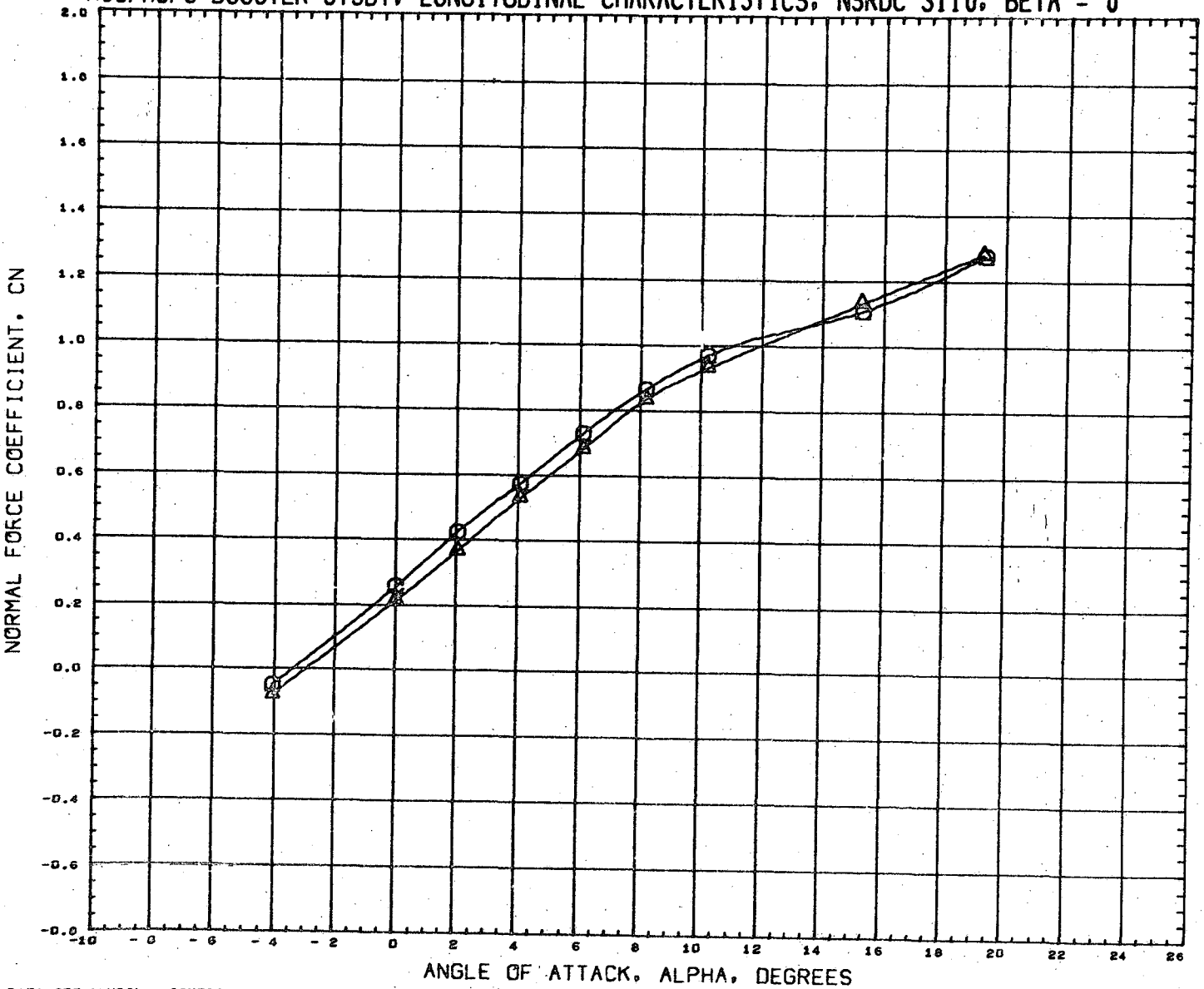


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2078)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2142)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

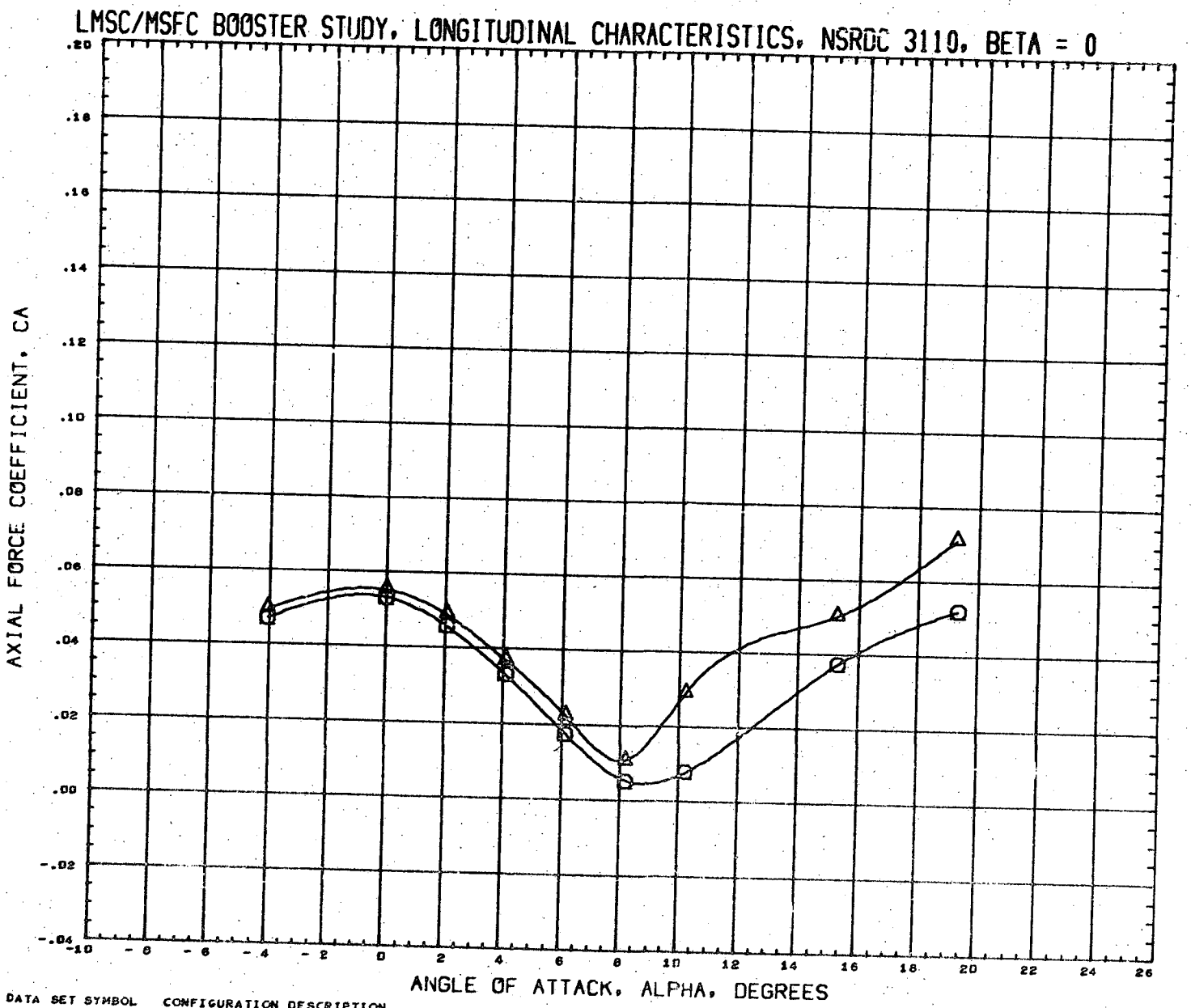
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2169)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

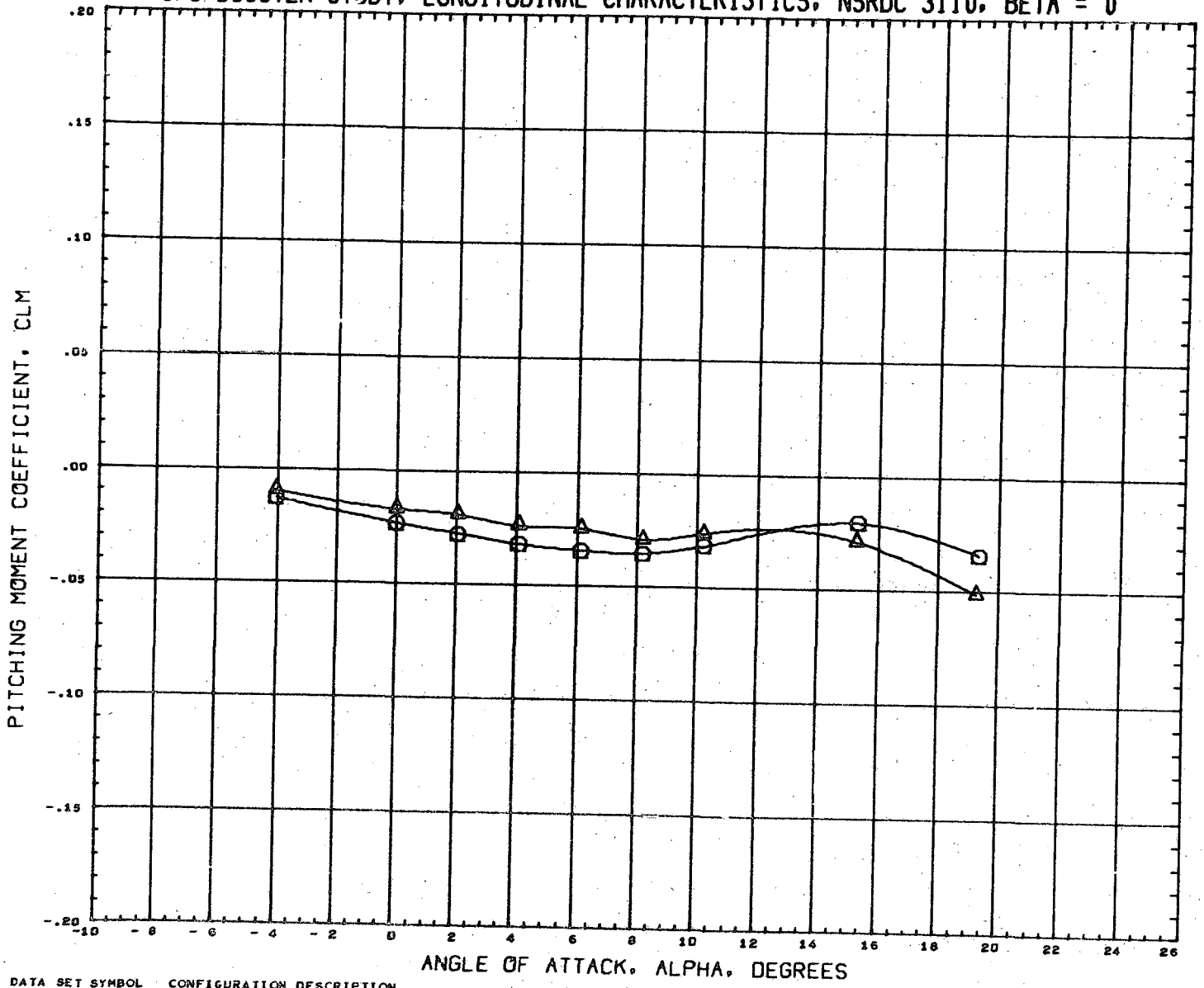


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2169)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



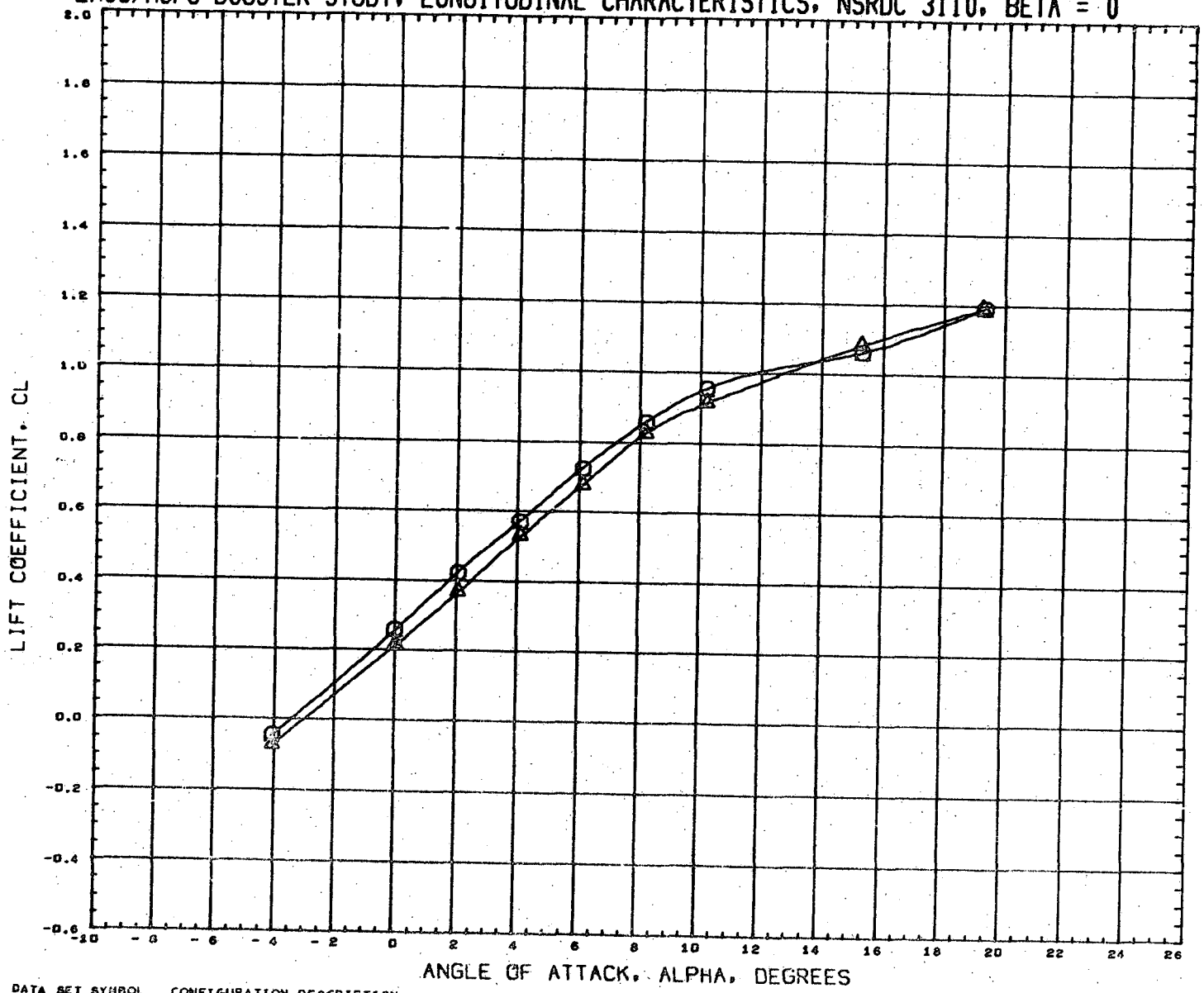
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2105)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2169)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

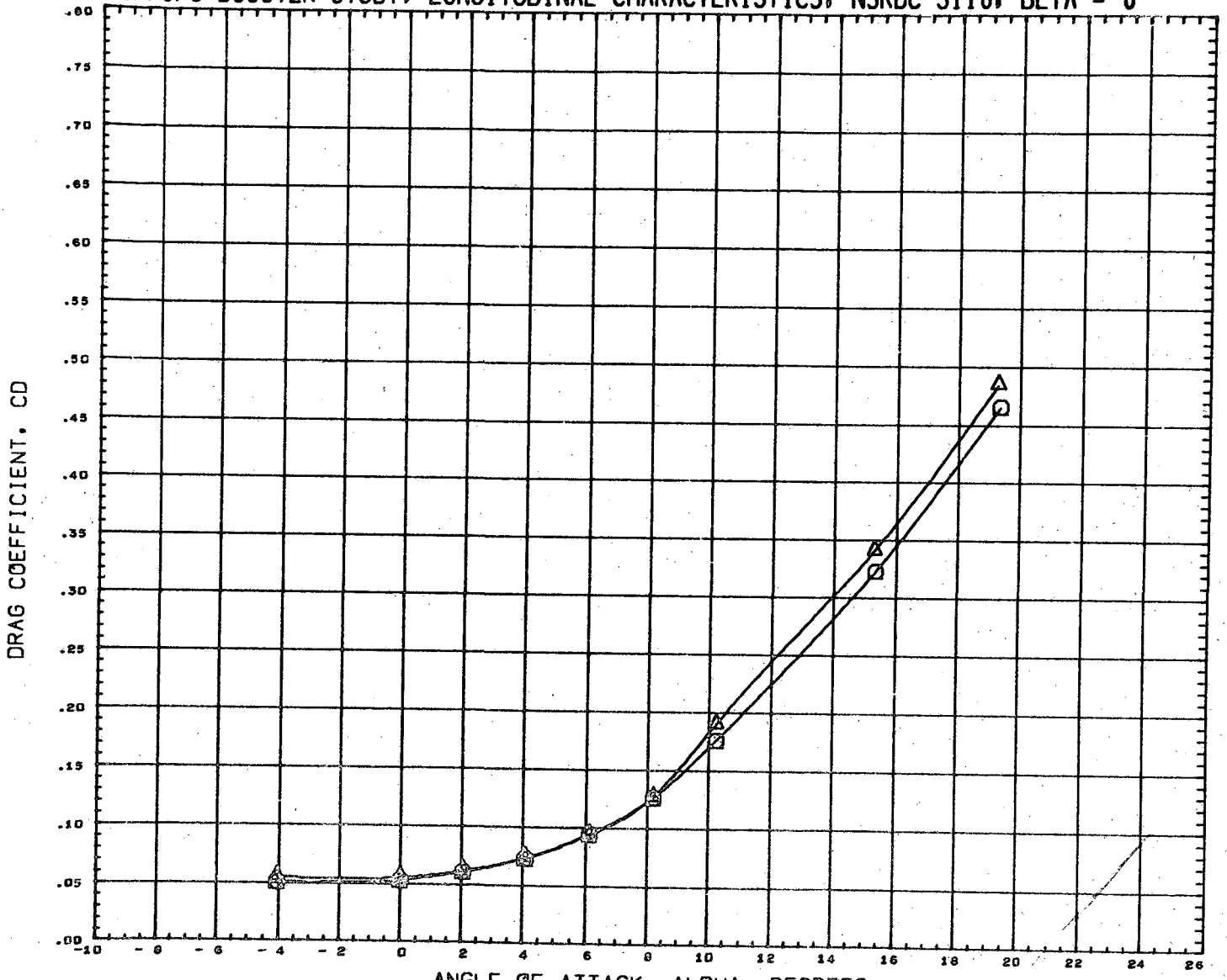


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2169)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

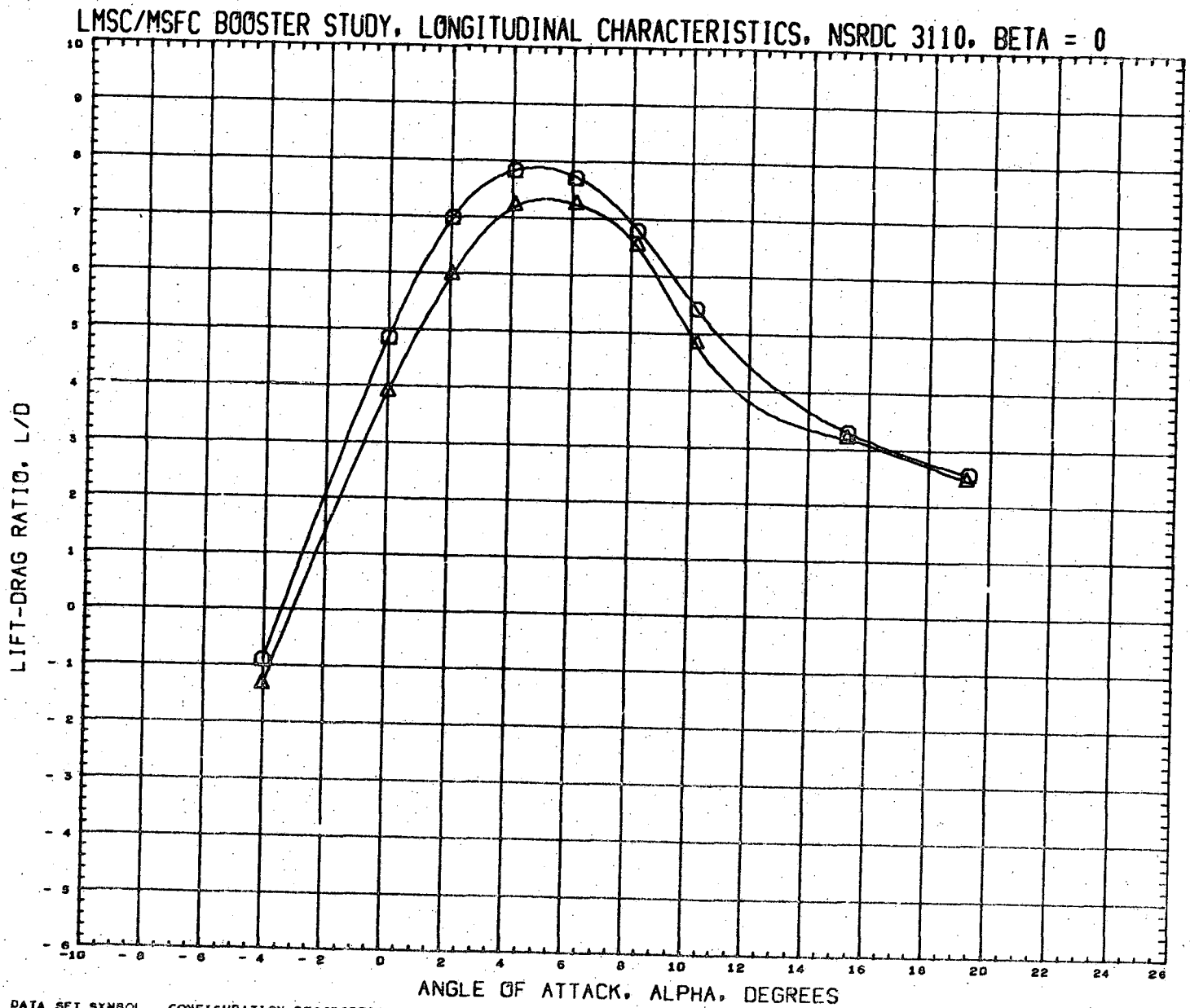
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2169)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000

MACH 0.581

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

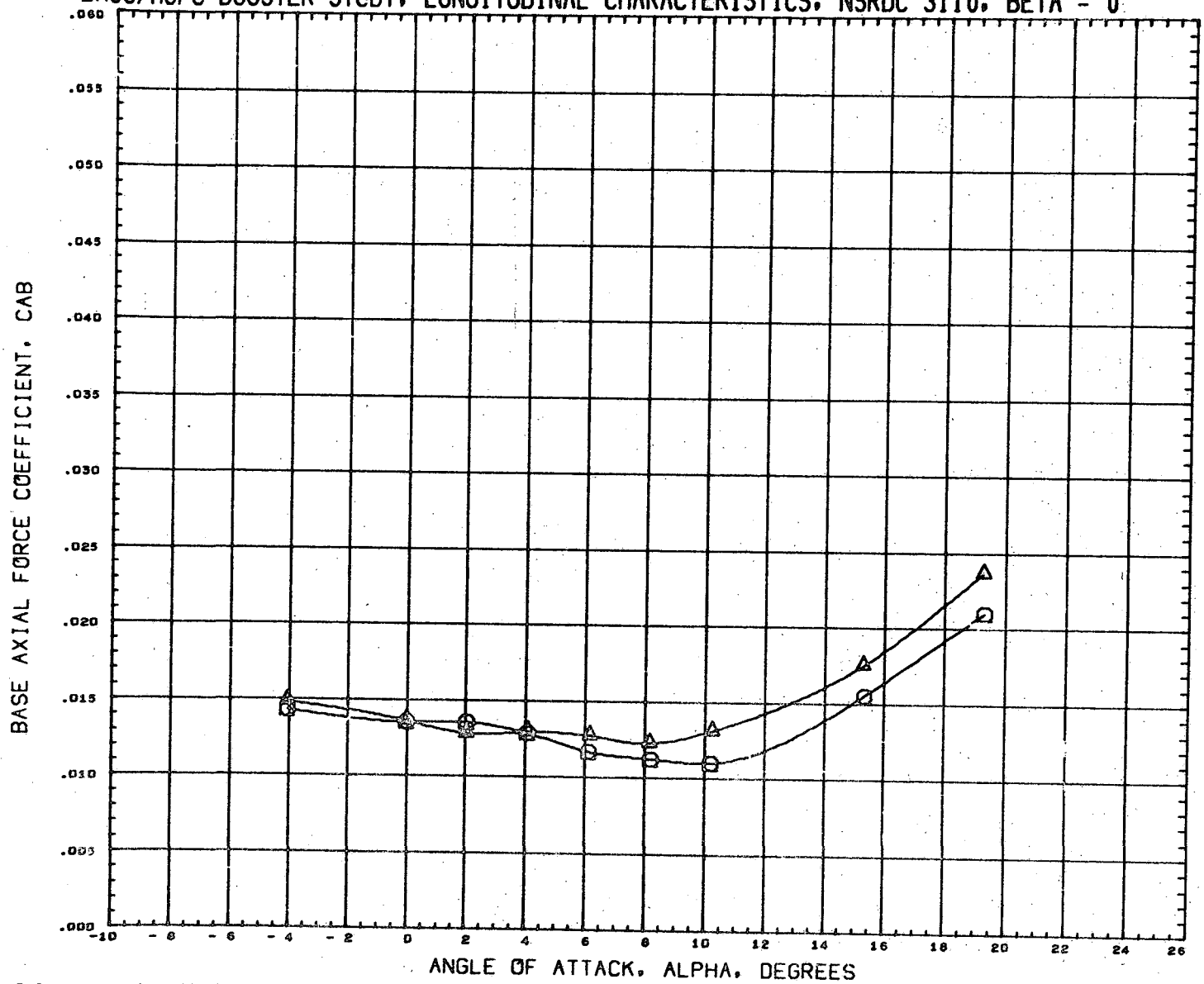


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2169)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

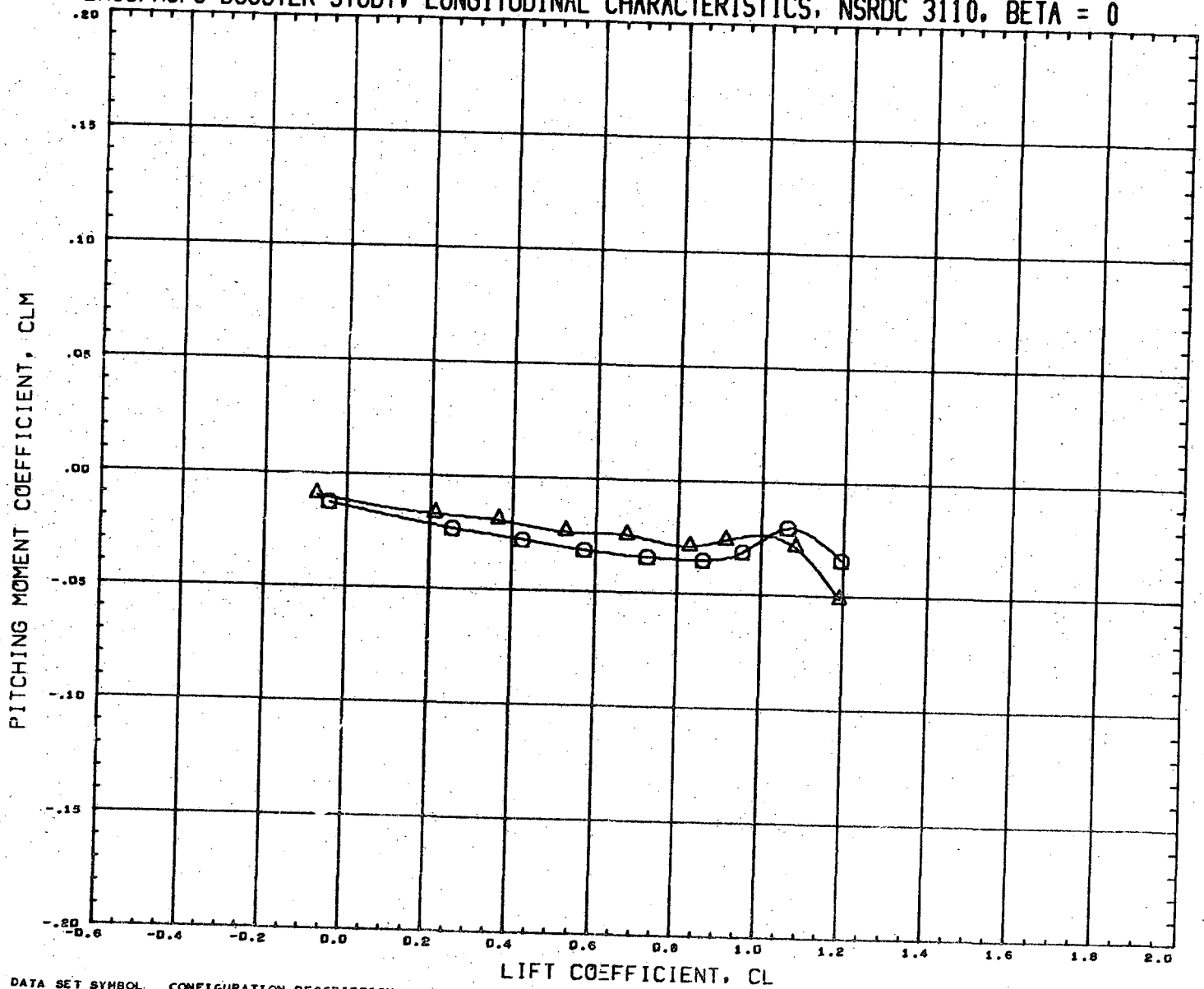
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2169)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

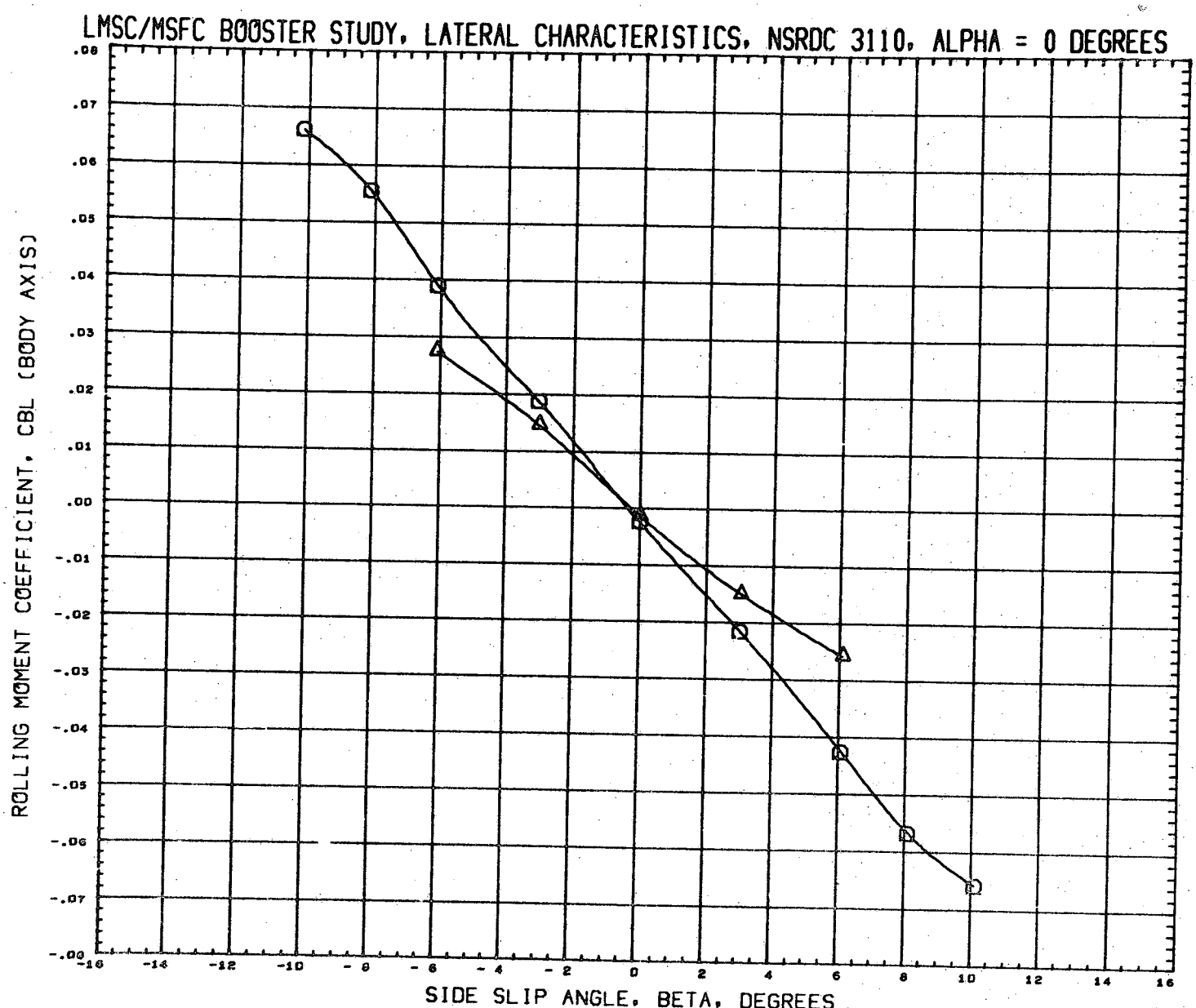


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2105)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2169)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.301

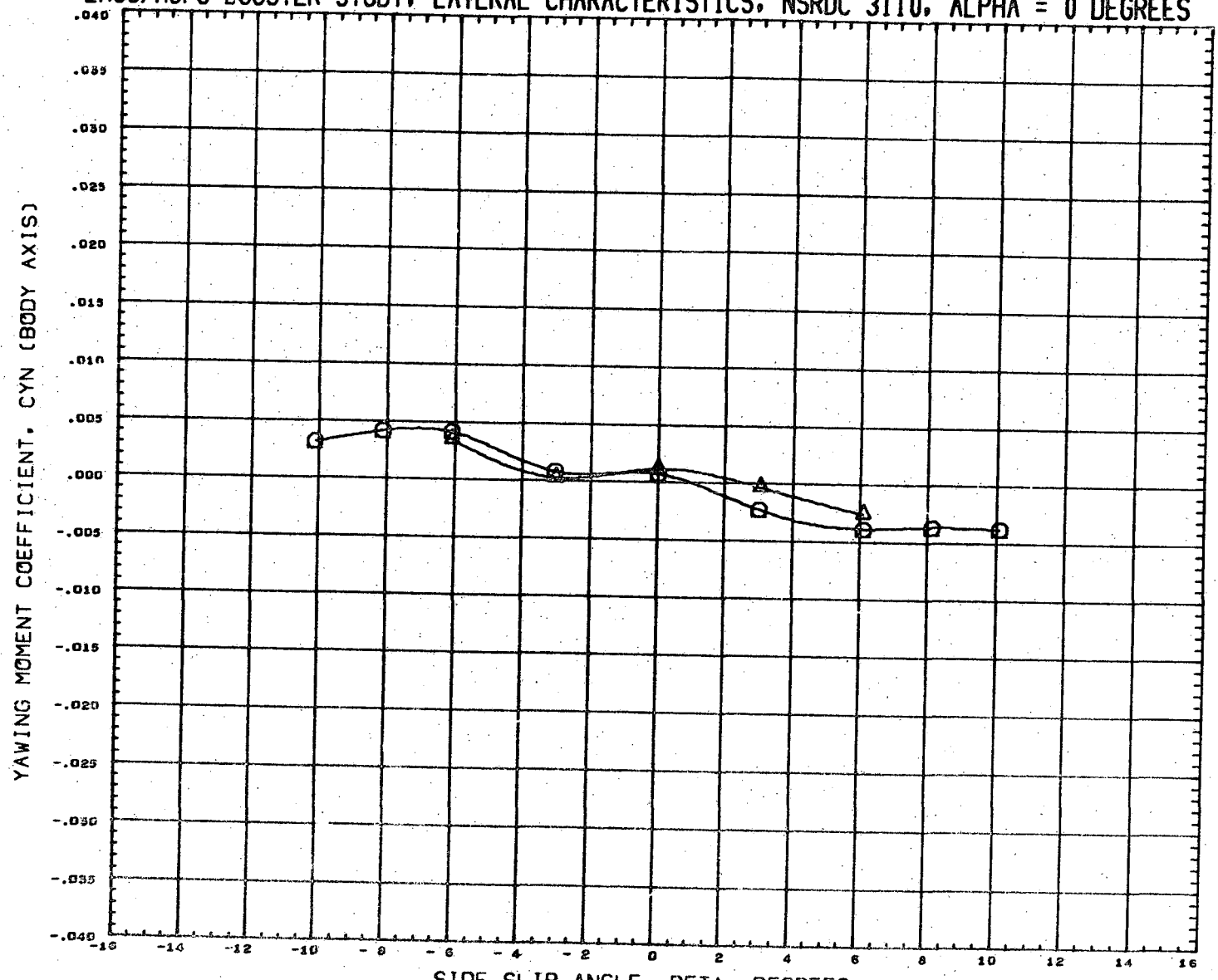


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2106)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2170)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000

MACH 0.378

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

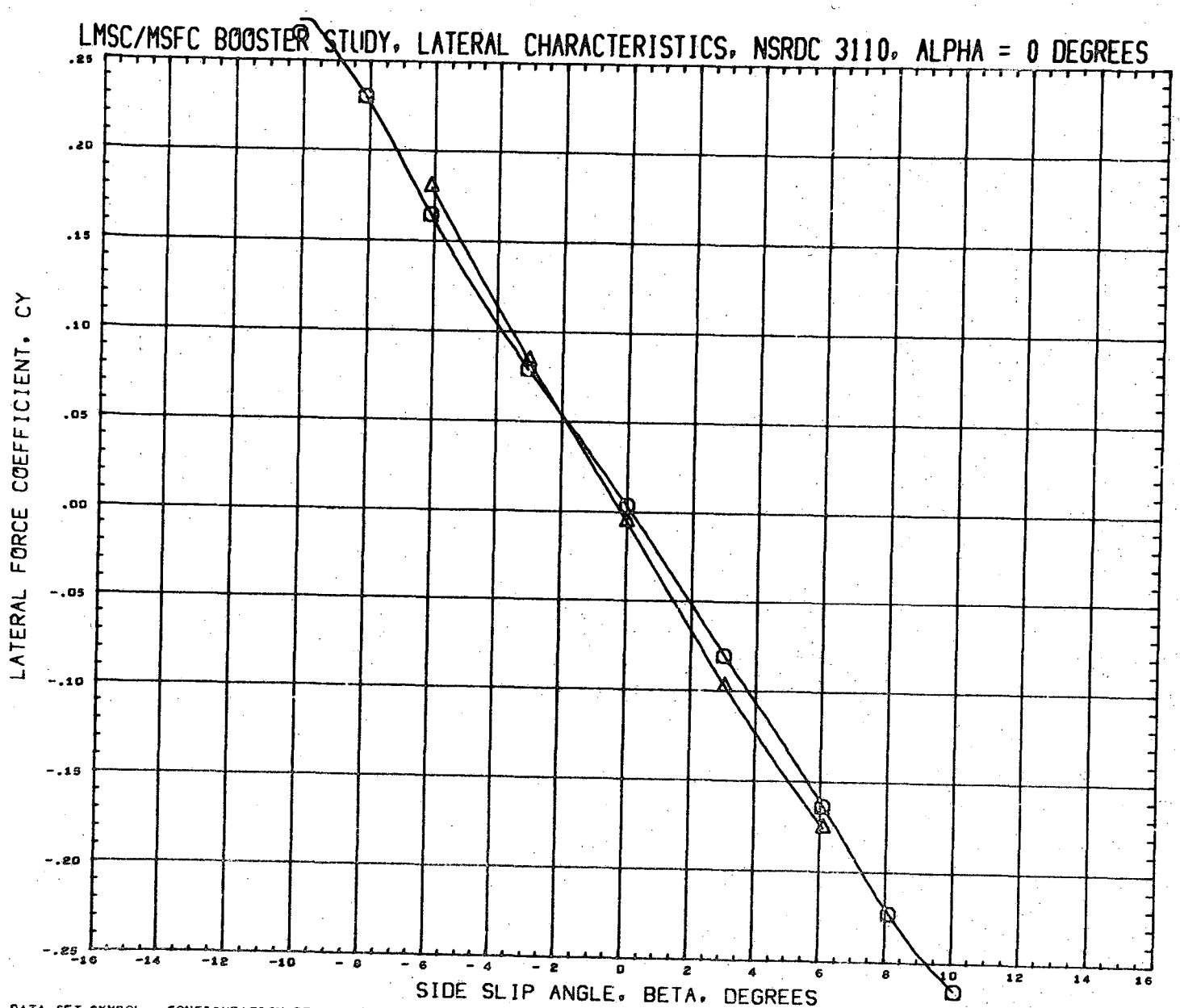


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2106)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2170)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.378



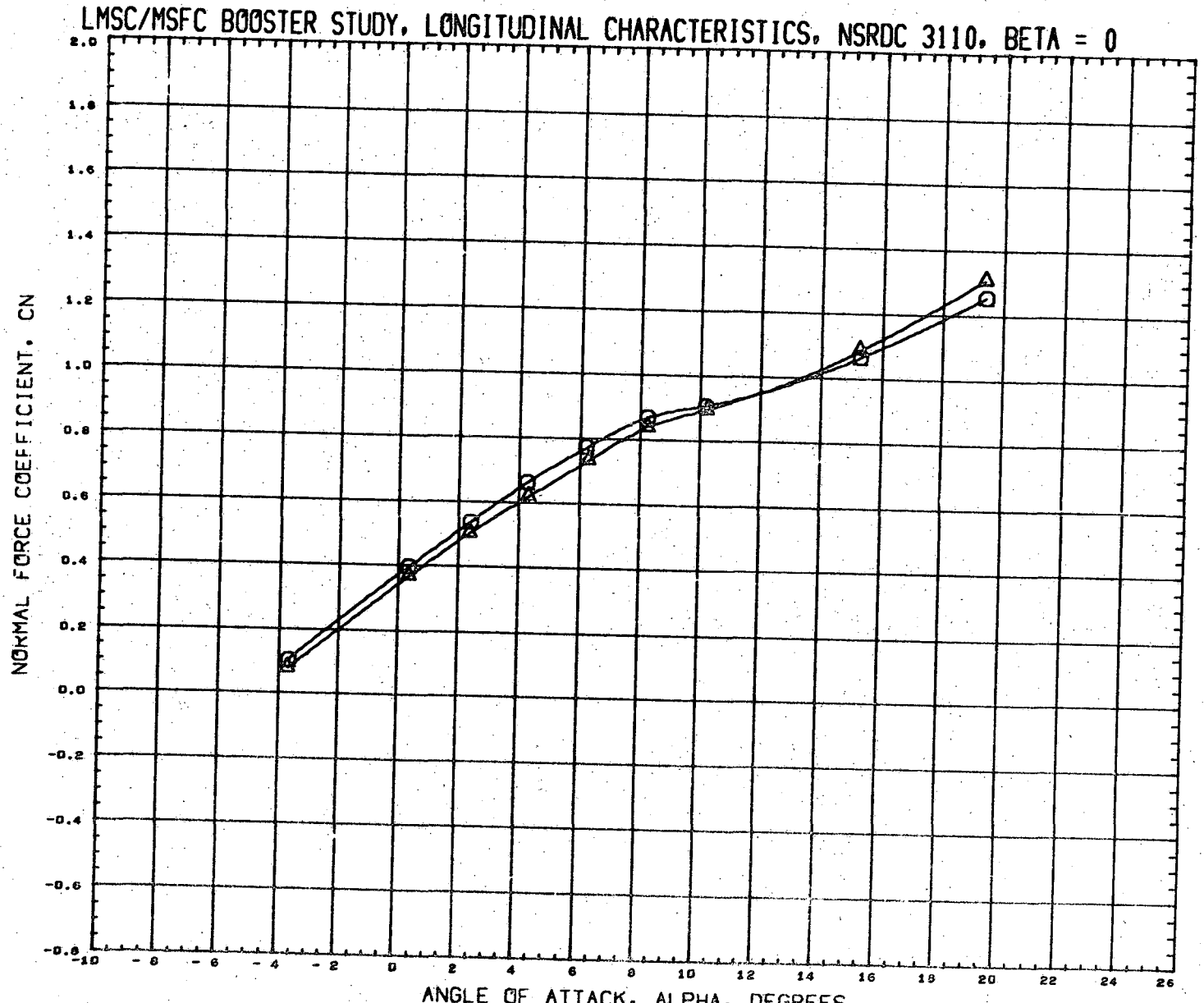
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2106)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2170)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

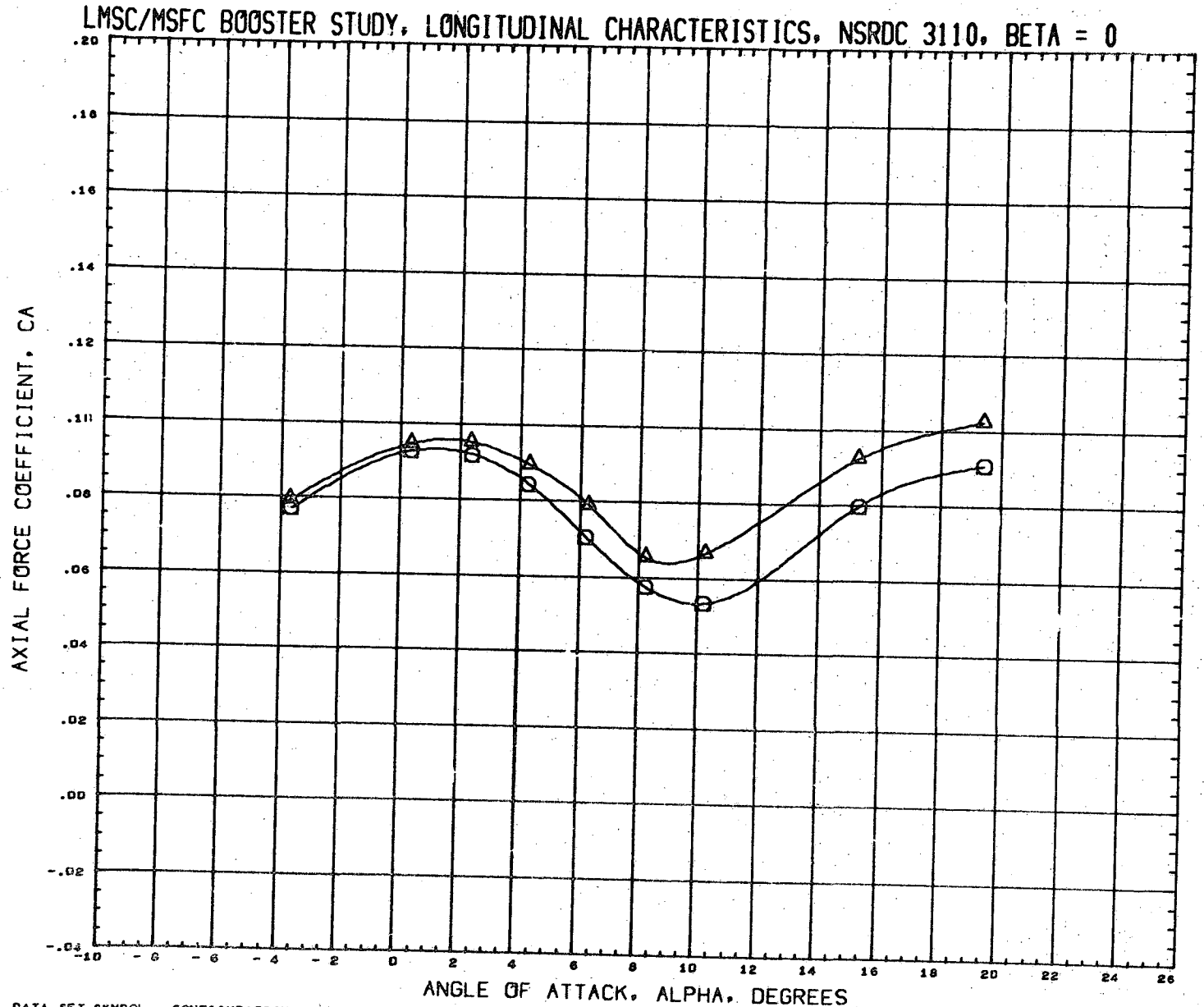
MACH 0.378



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2173)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

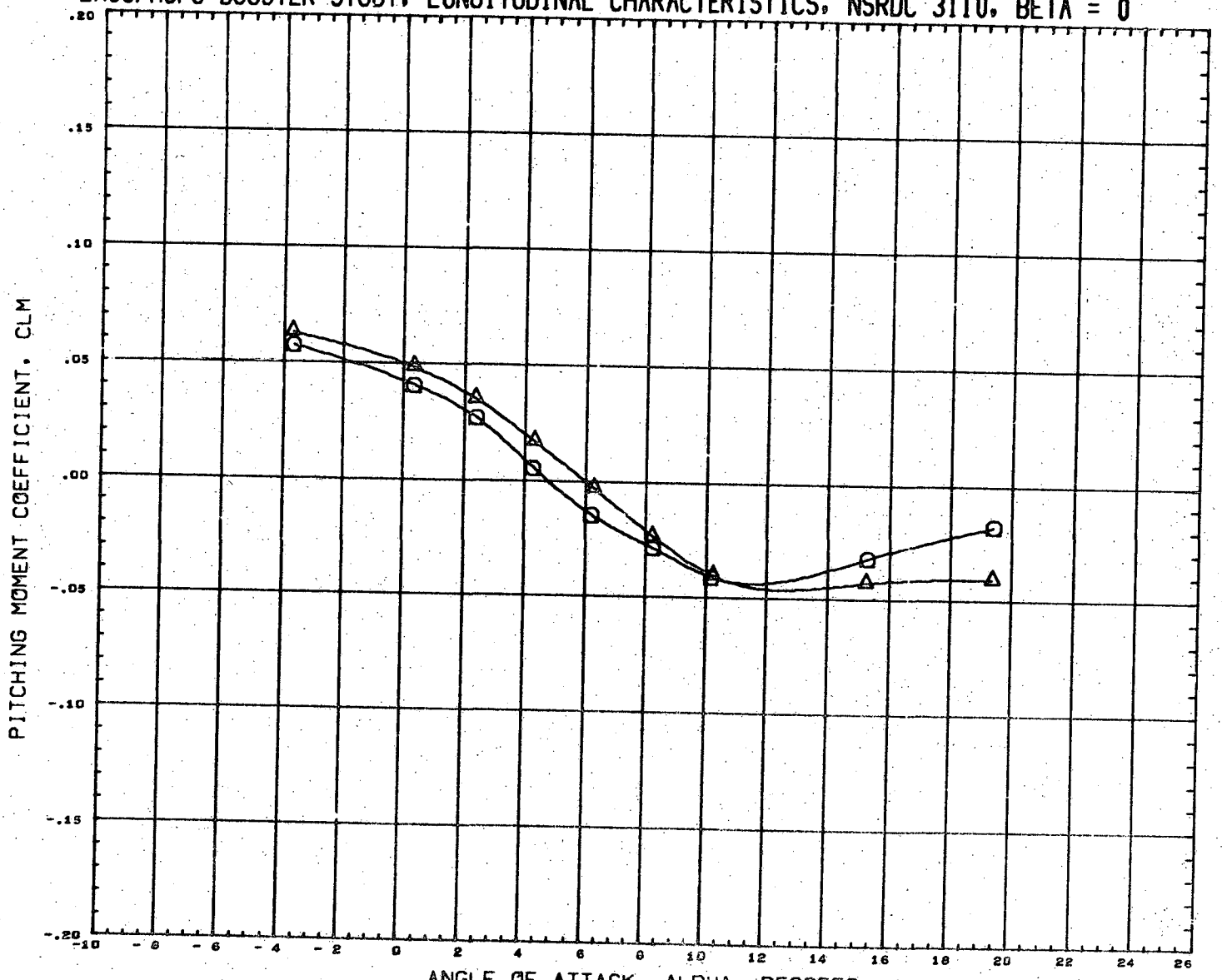


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2173)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

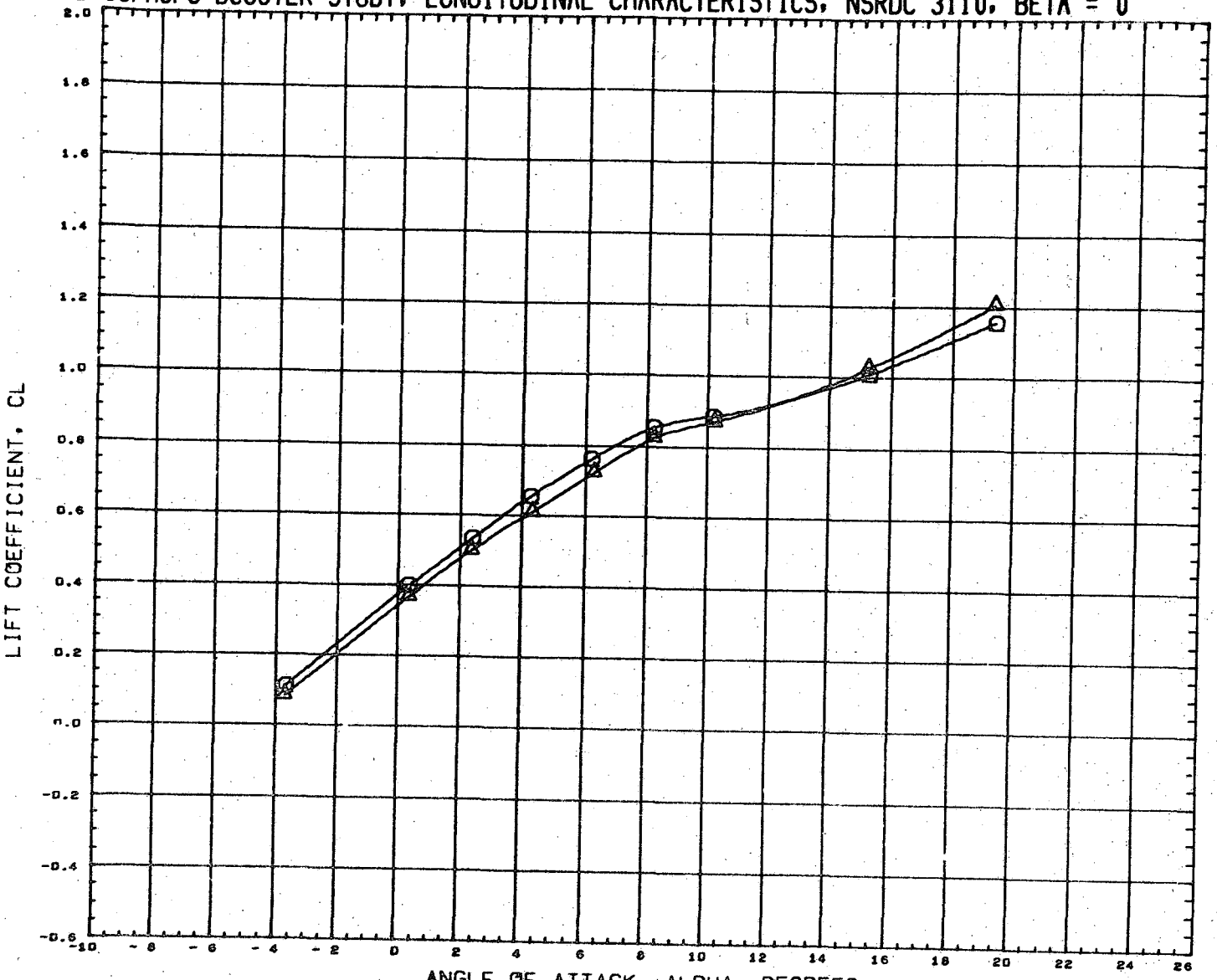


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2173)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



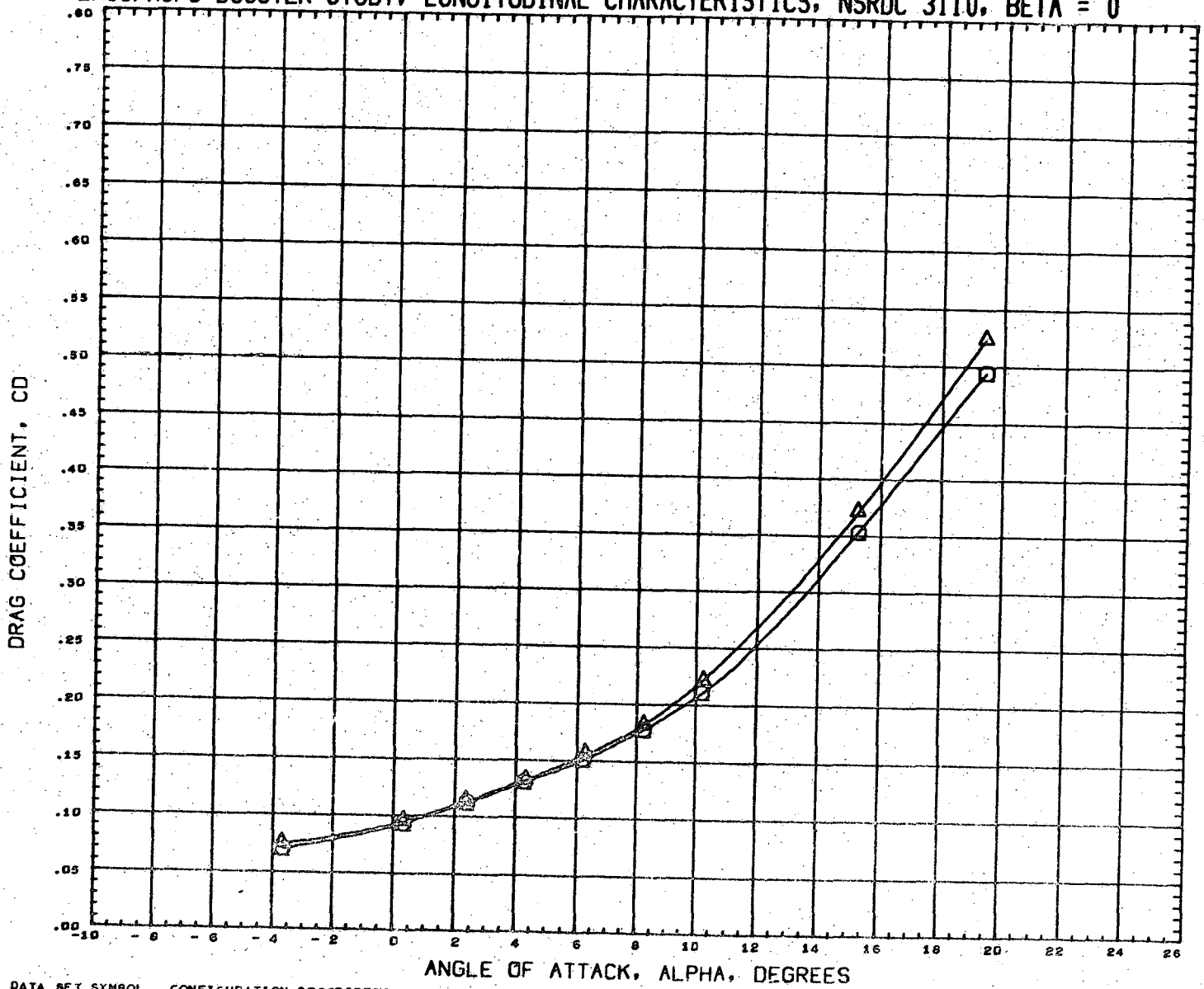
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2173)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V201	15.000	2.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2109)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2173)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

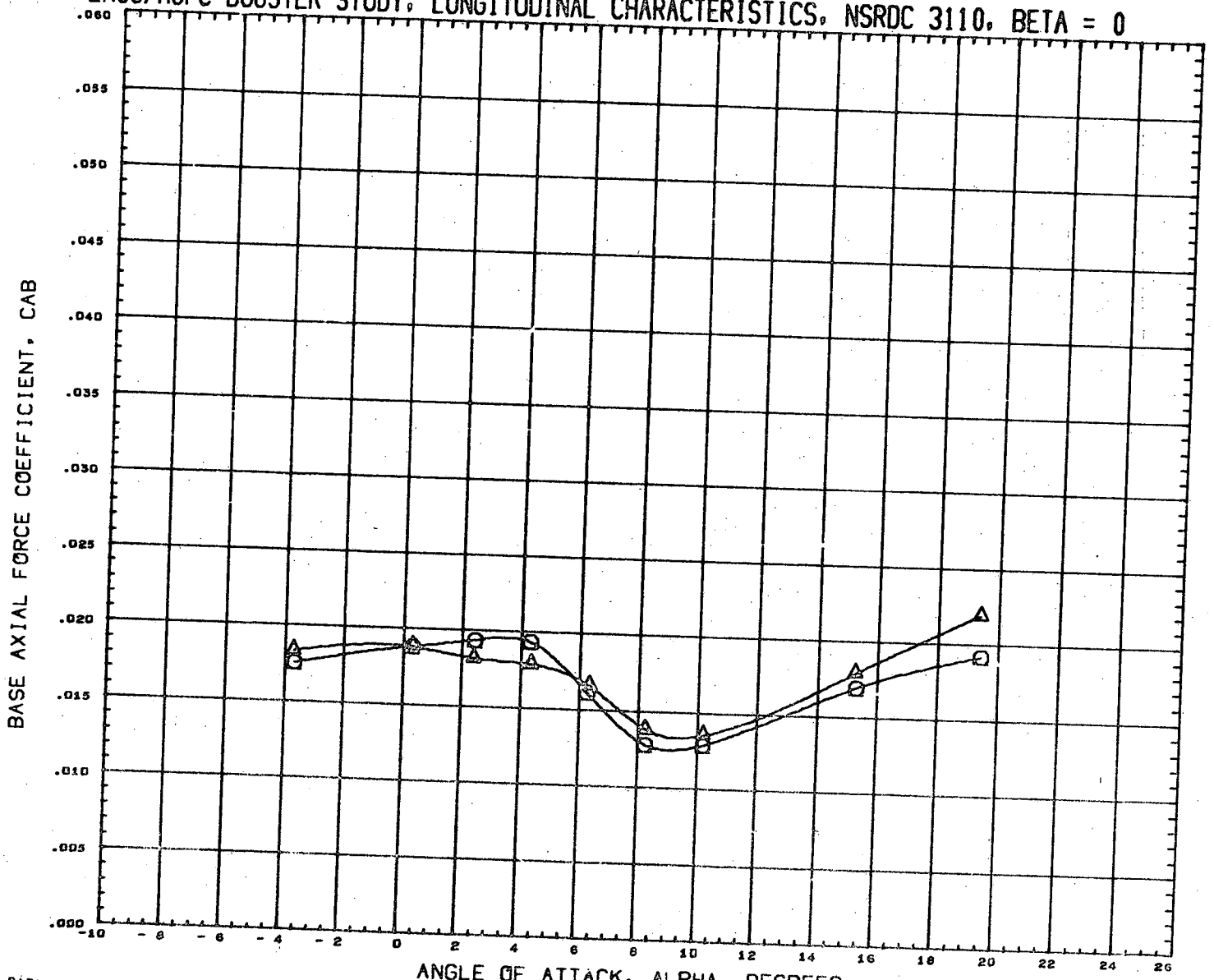
MACH 0.301

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2173)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

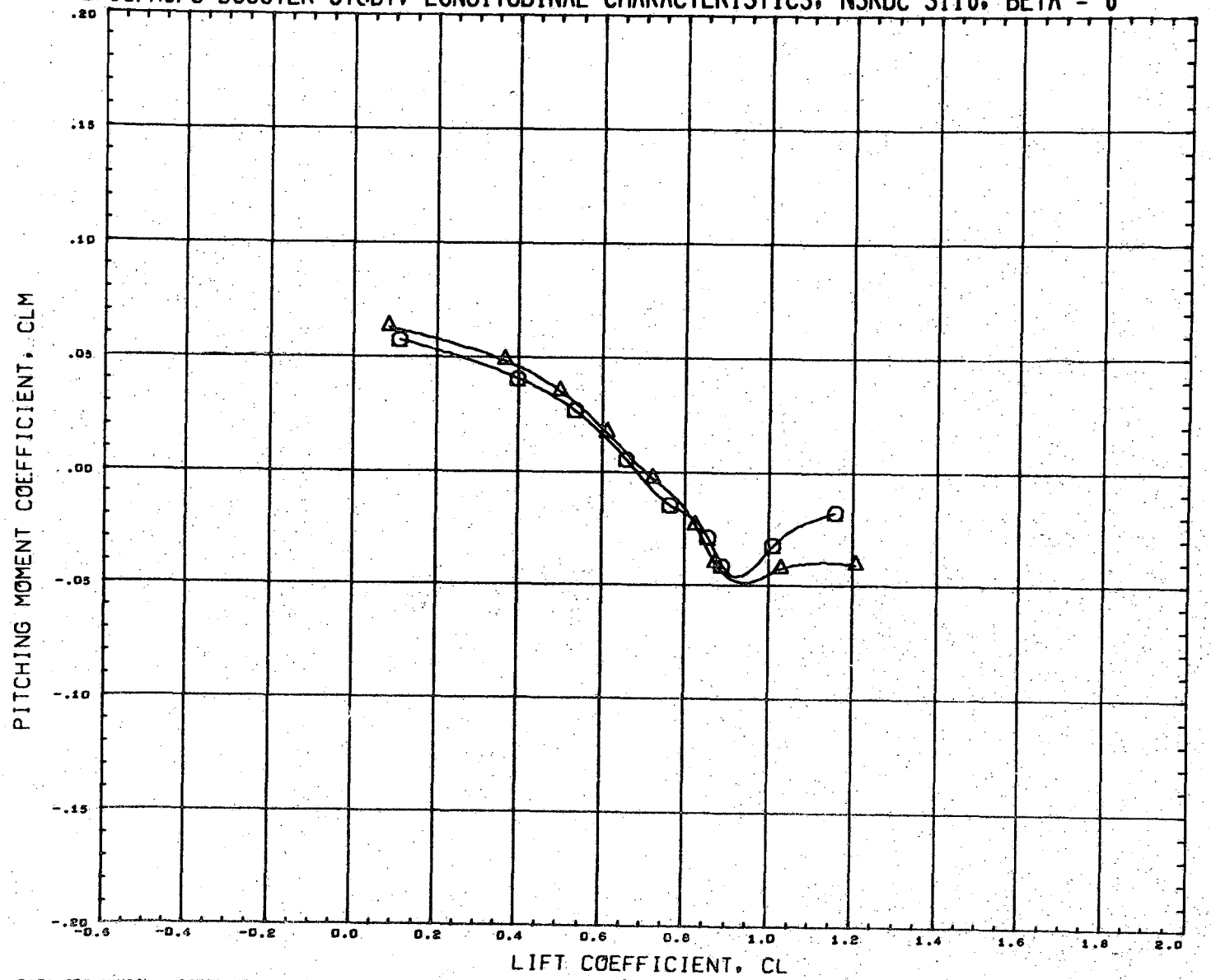


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2173)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

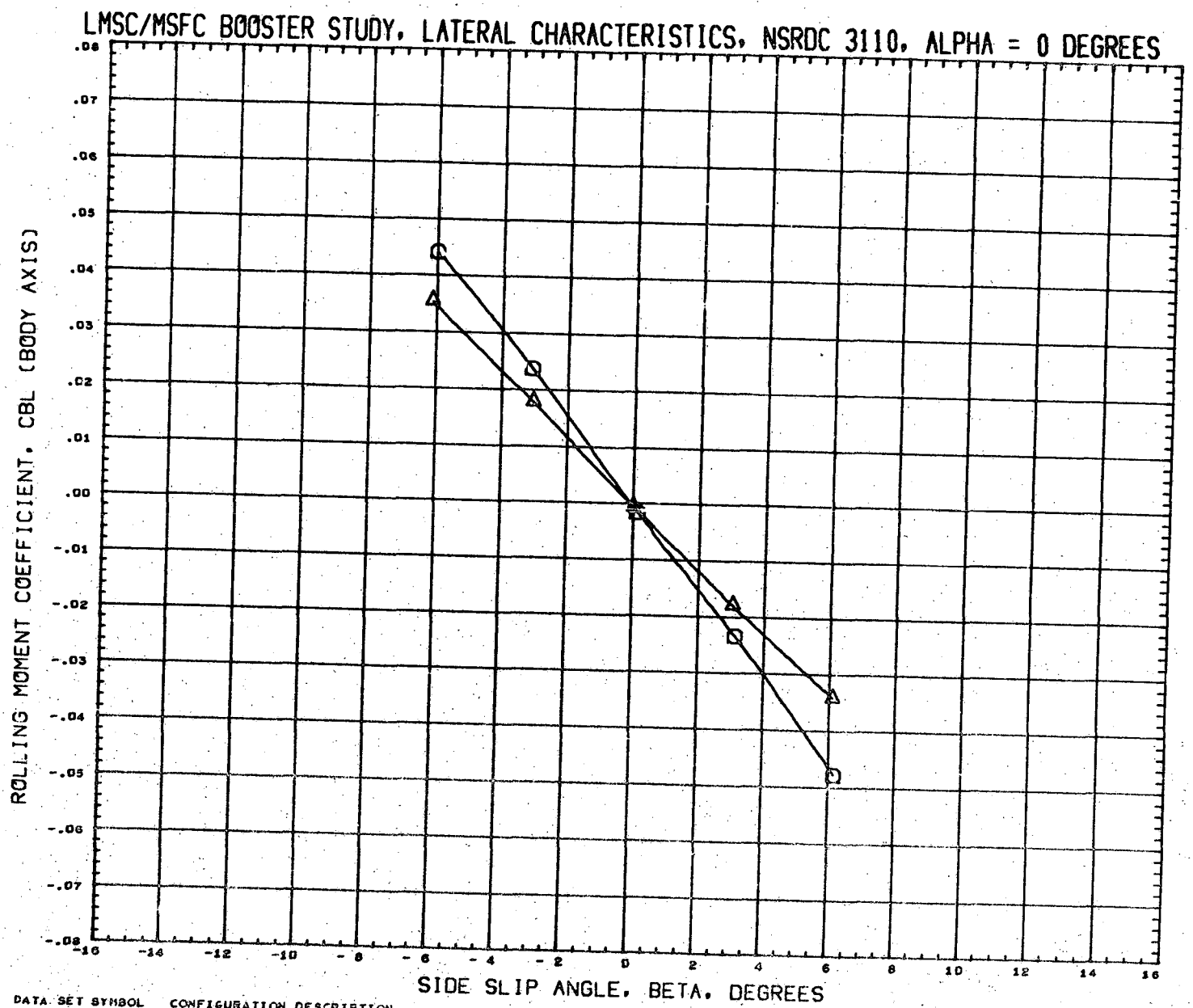
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2173)		NSRDC-3110,MSFC/LNSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2110)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2174)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

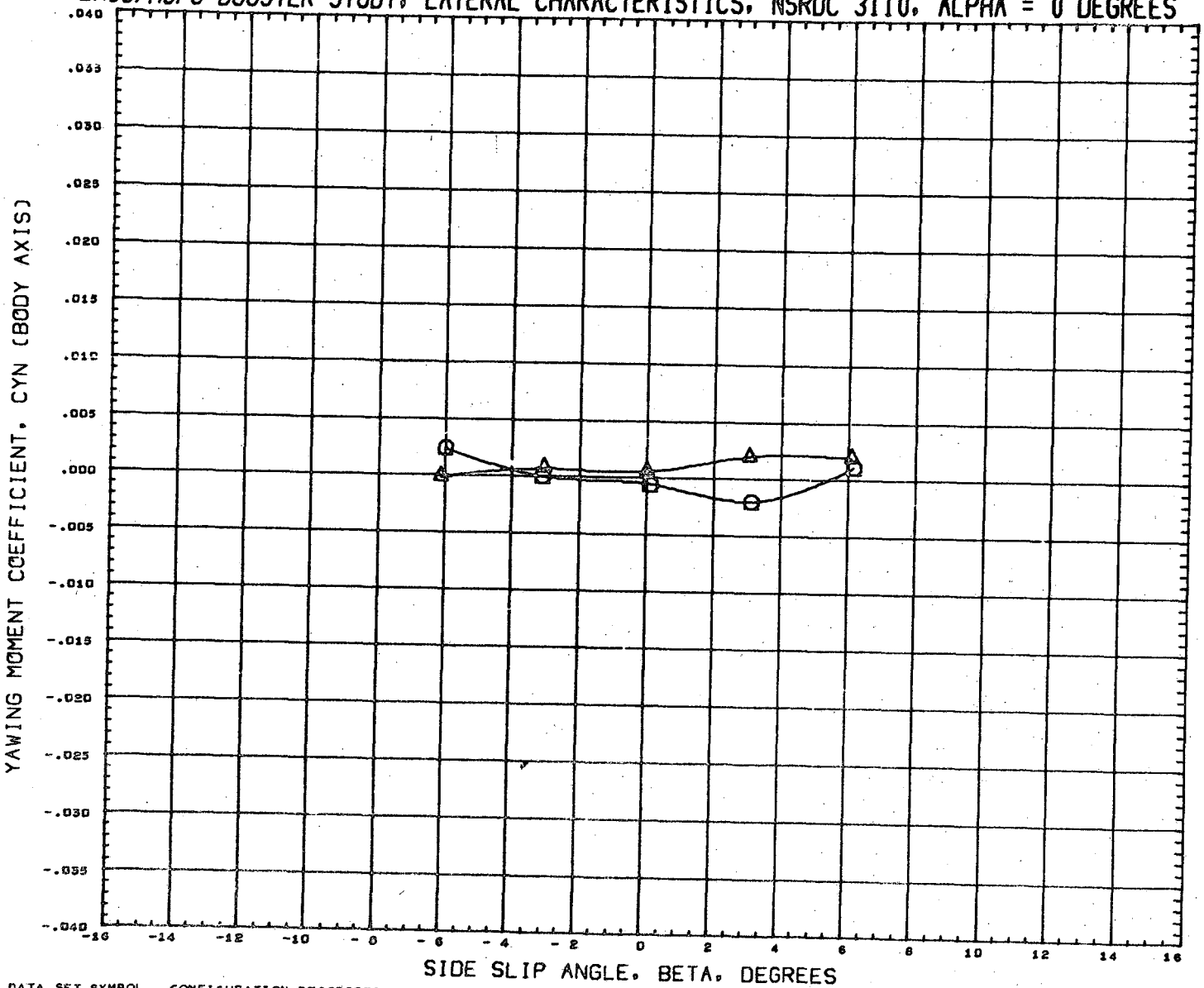
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

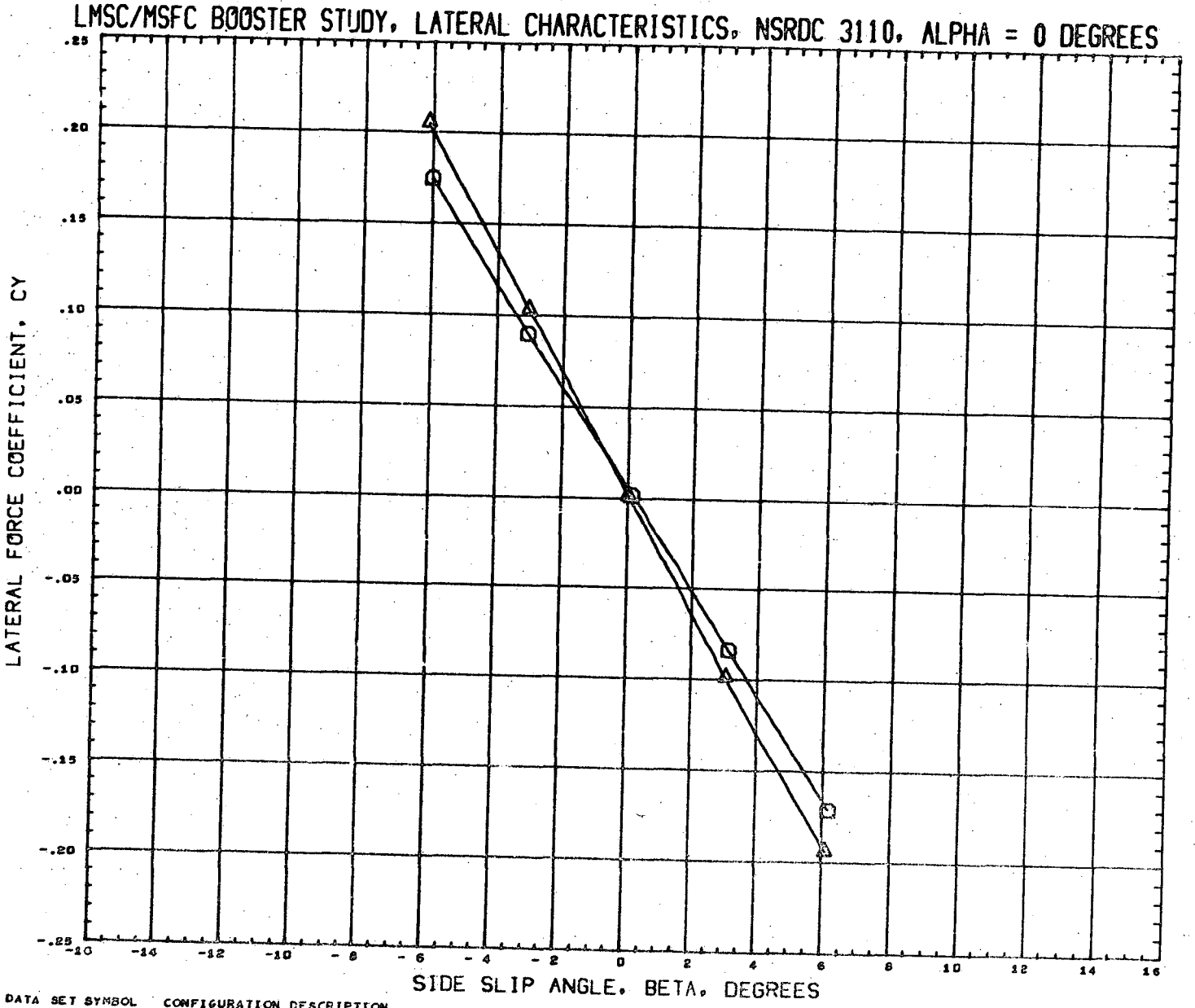


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2110)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2174)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000

MACH 0.380

REFERENCE INFORMATION

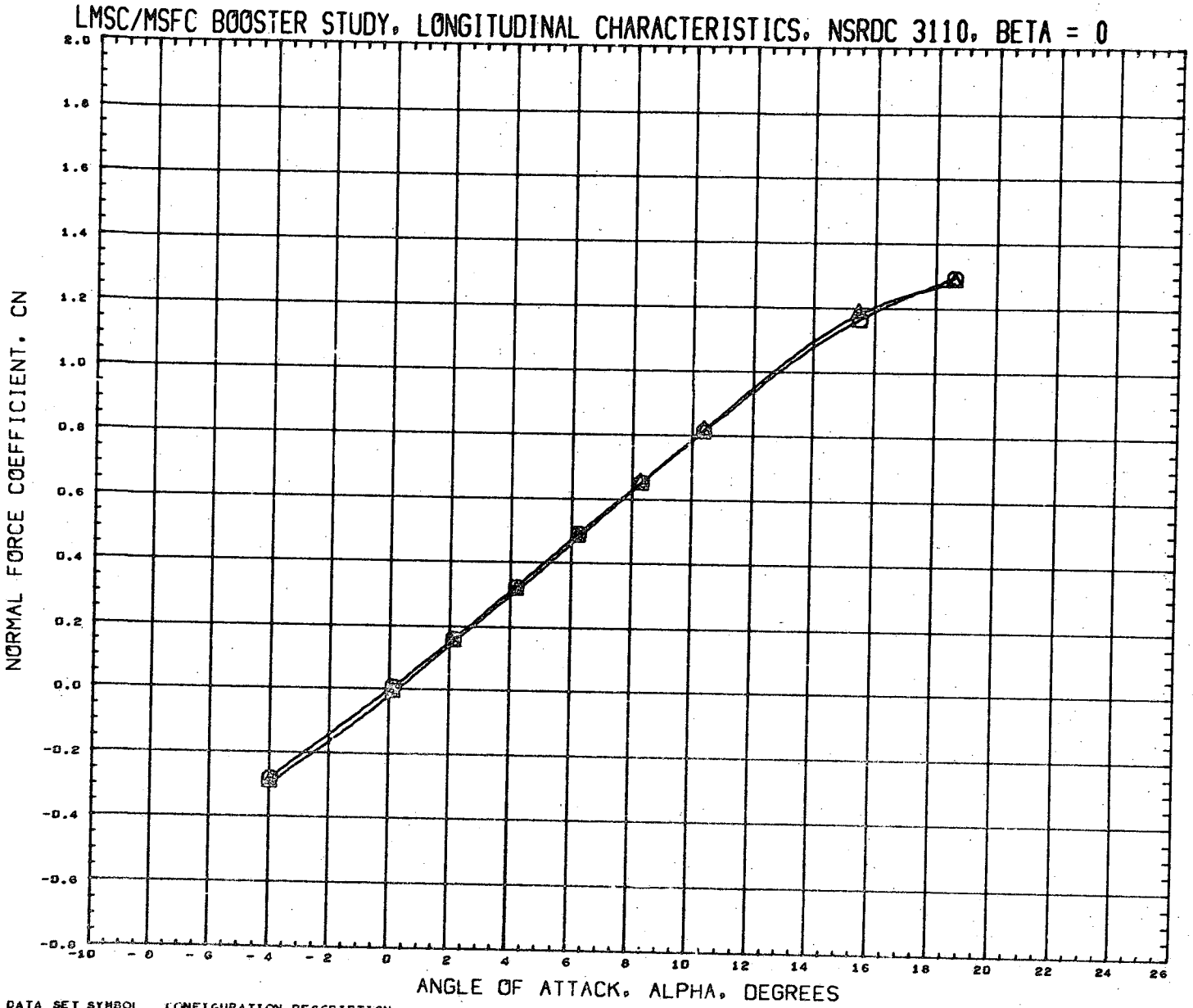
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2110)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2174)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000

MACH 0.300

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

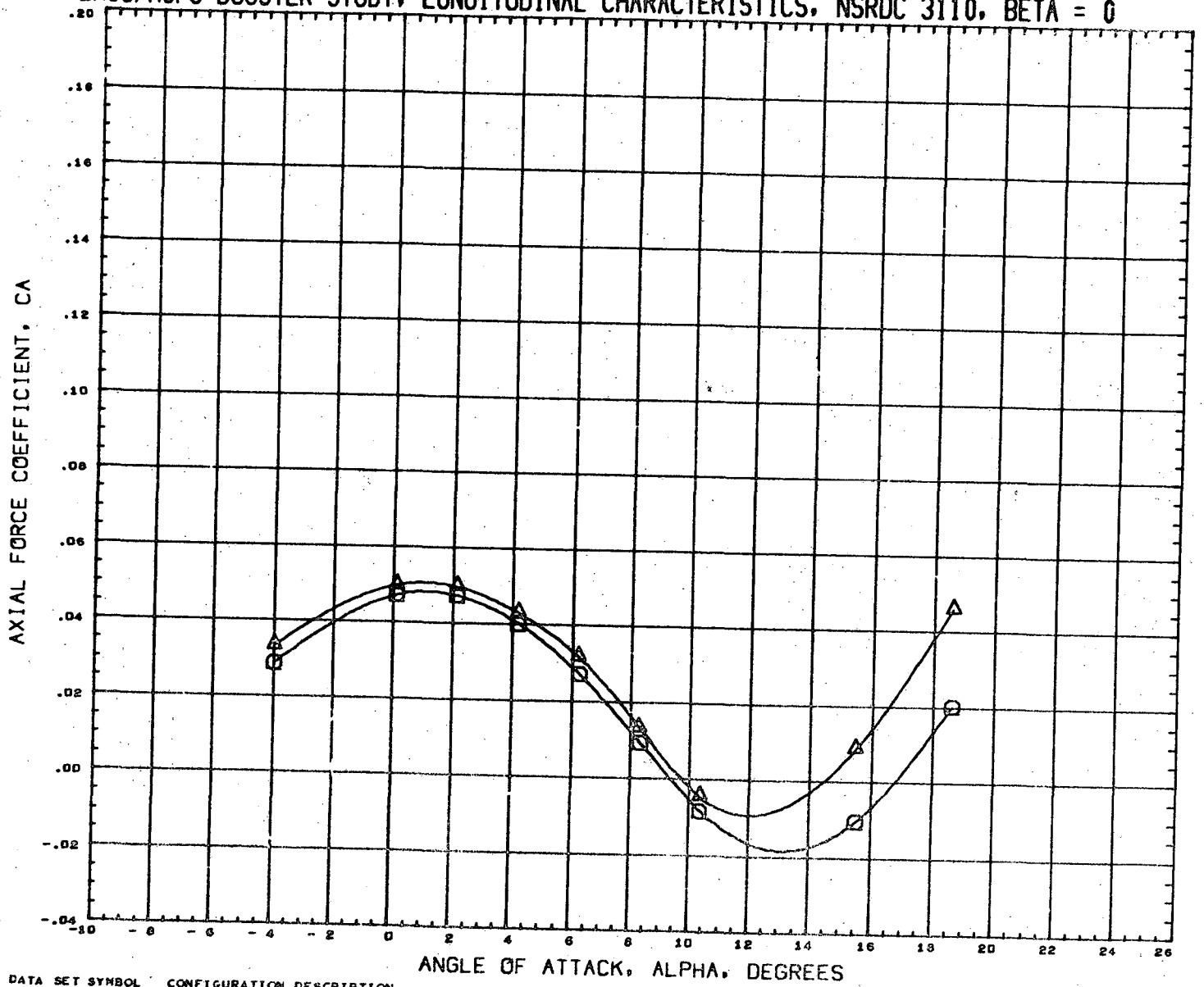


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2081)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000
(RN2145)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

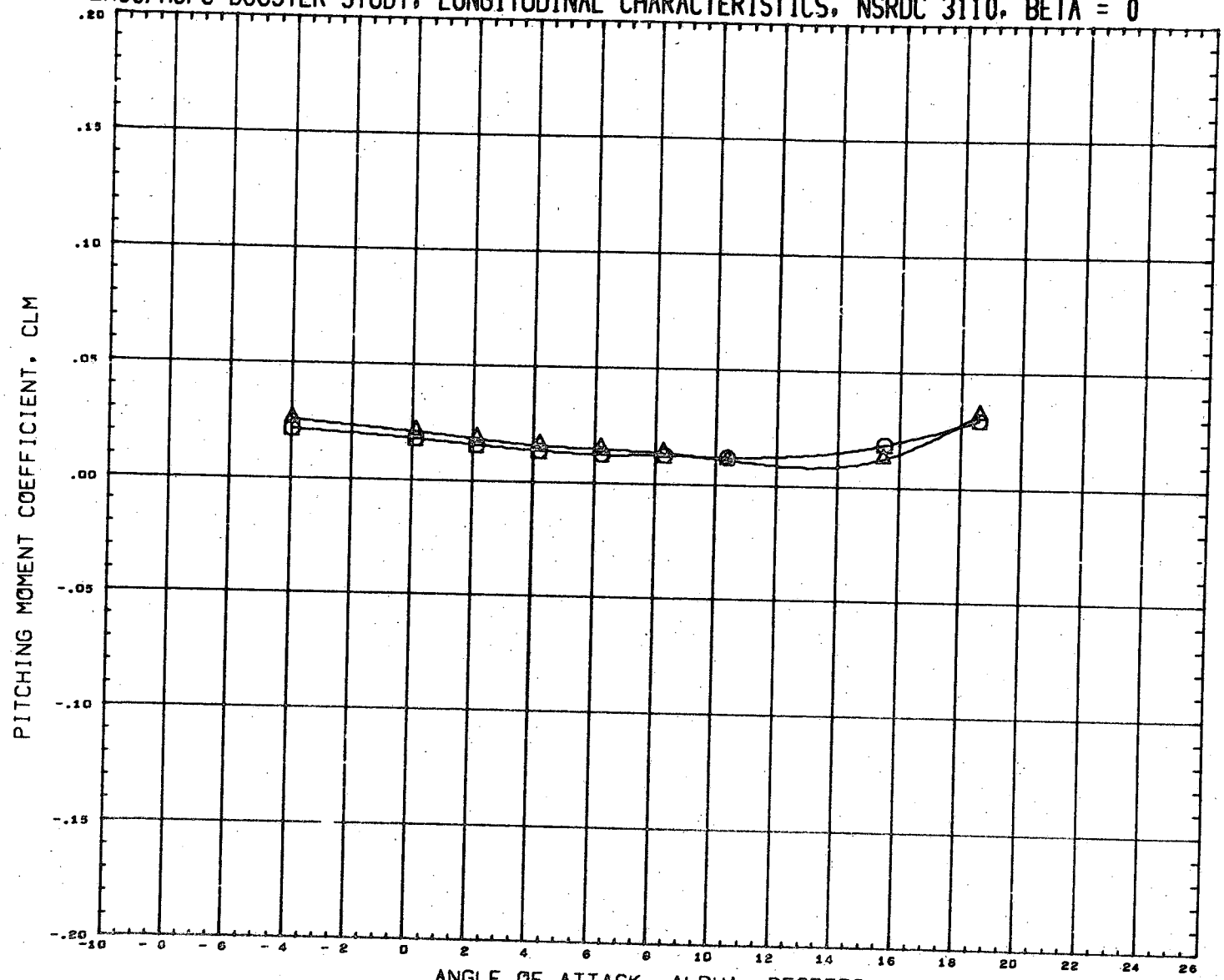


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIOW	WNGPOS
(RN2001)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000
(RN2145)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

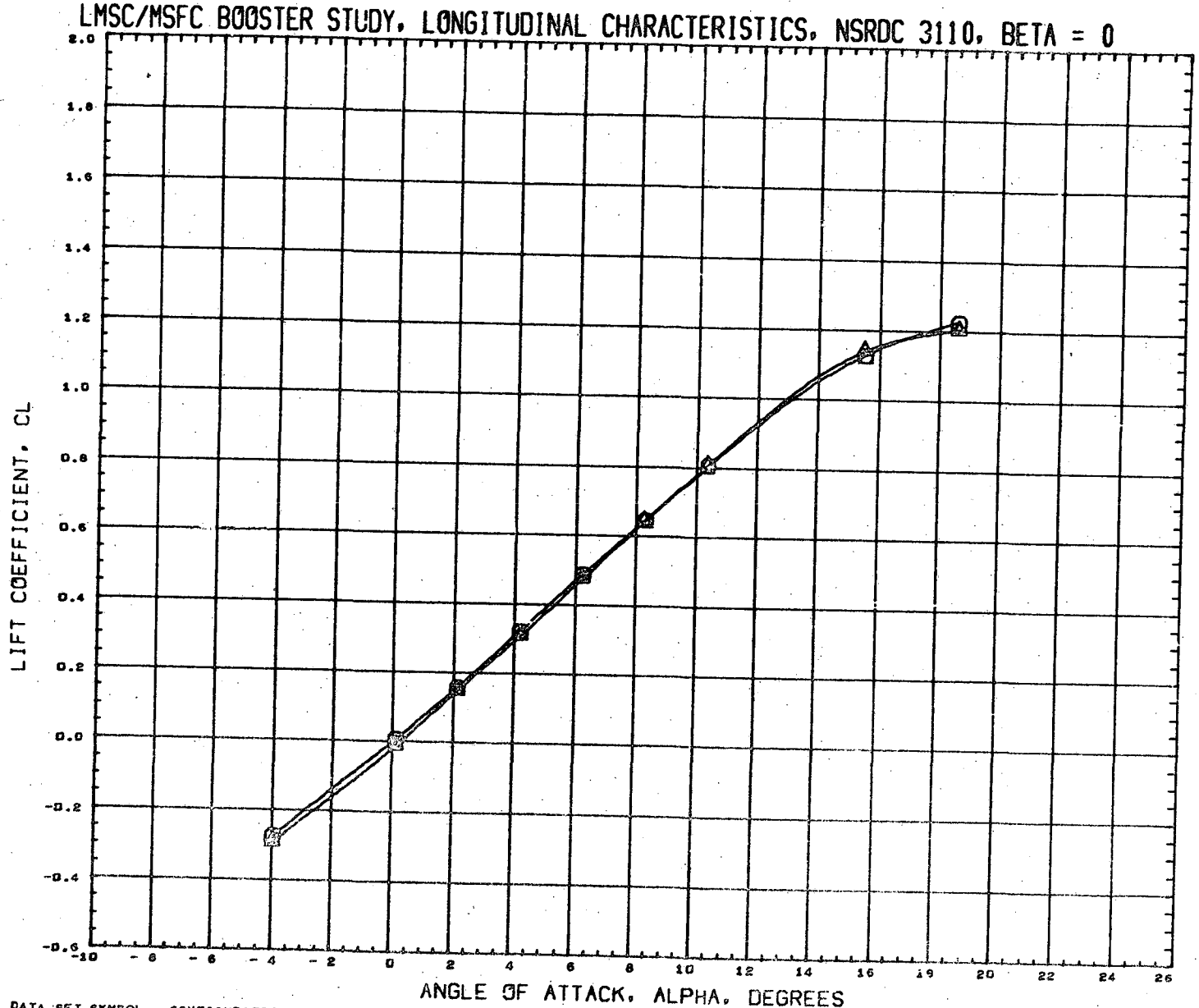


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2081)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000
(RN2145)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

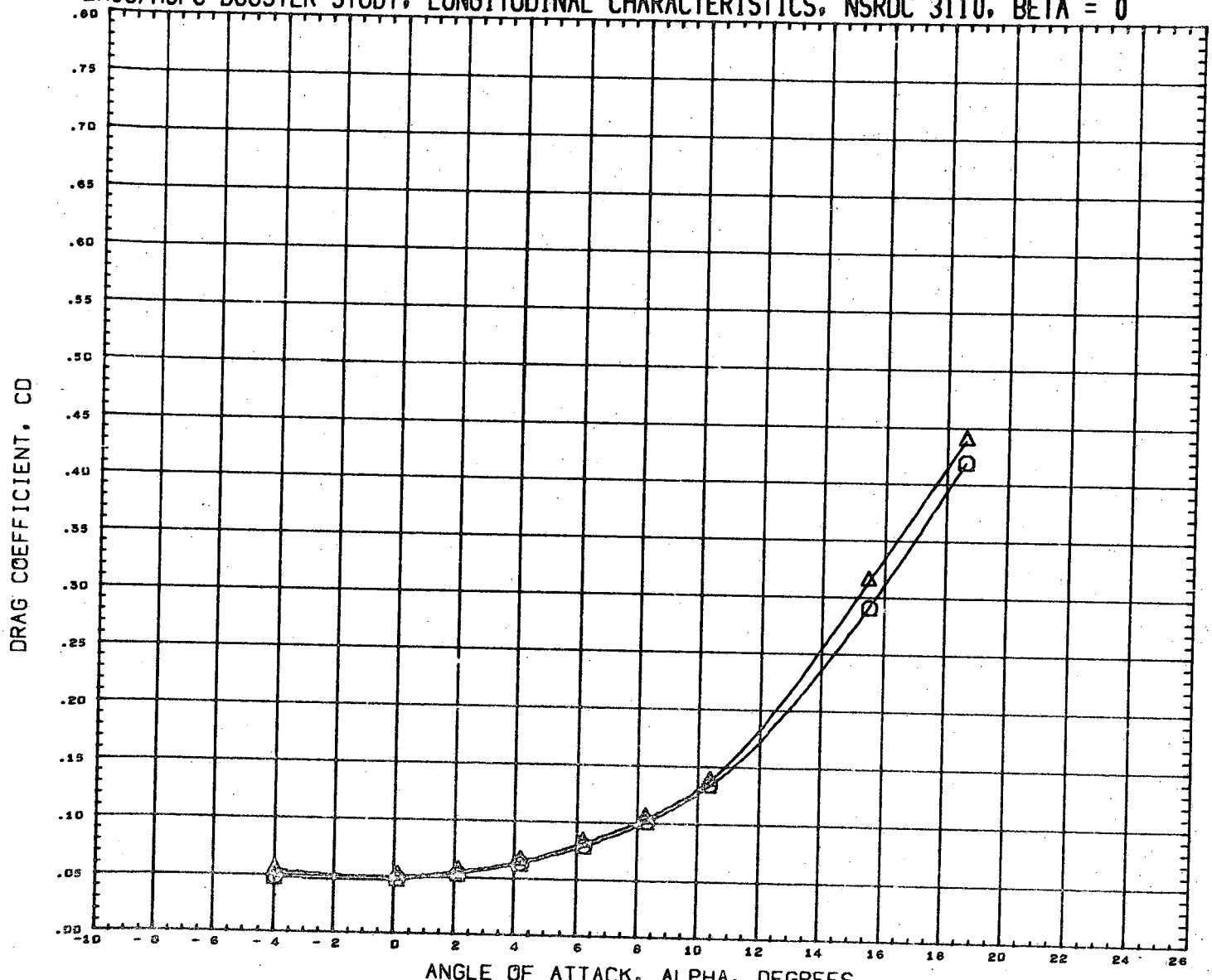


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2081)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000
(RN2145)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2081)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2145)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

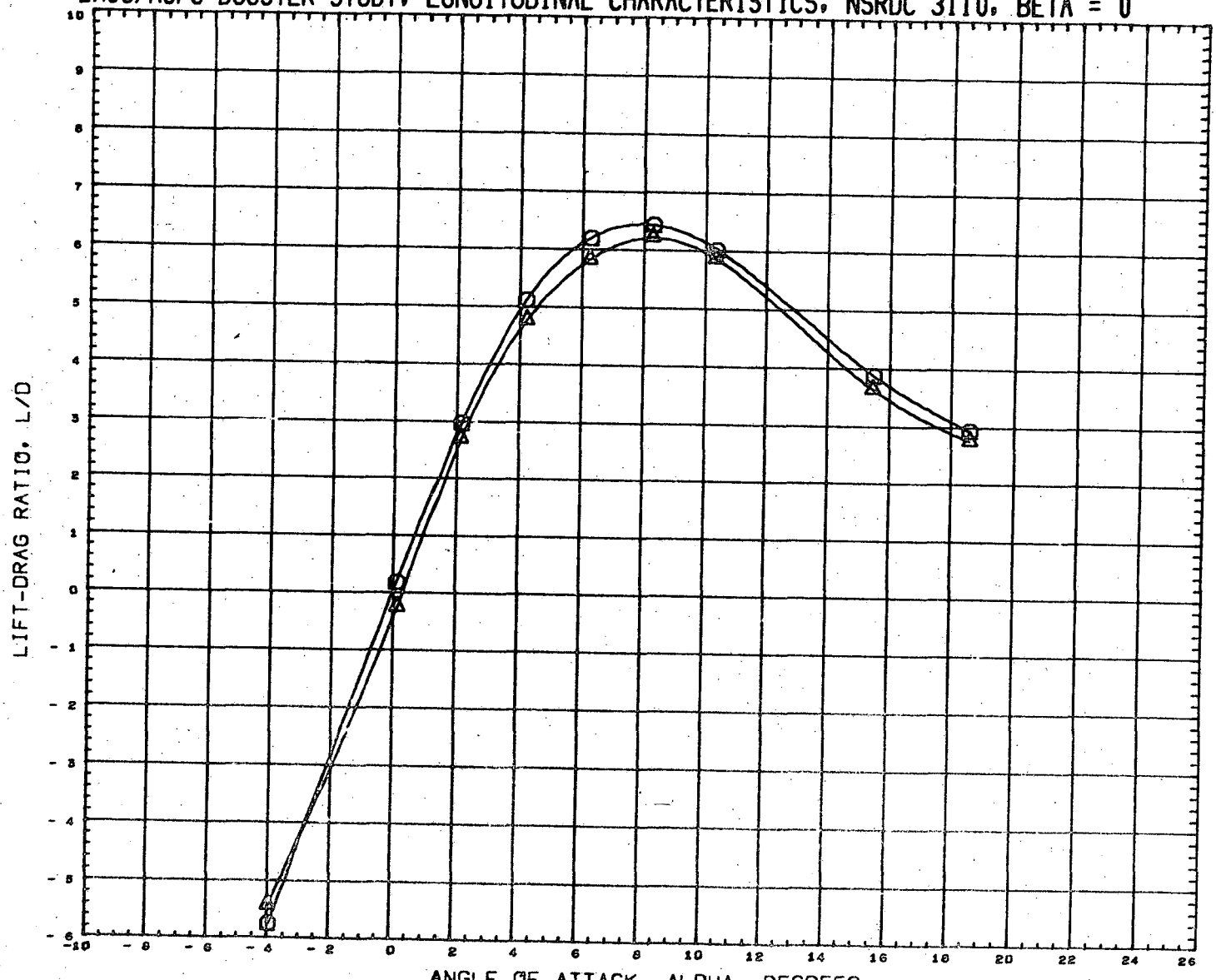
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	2.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



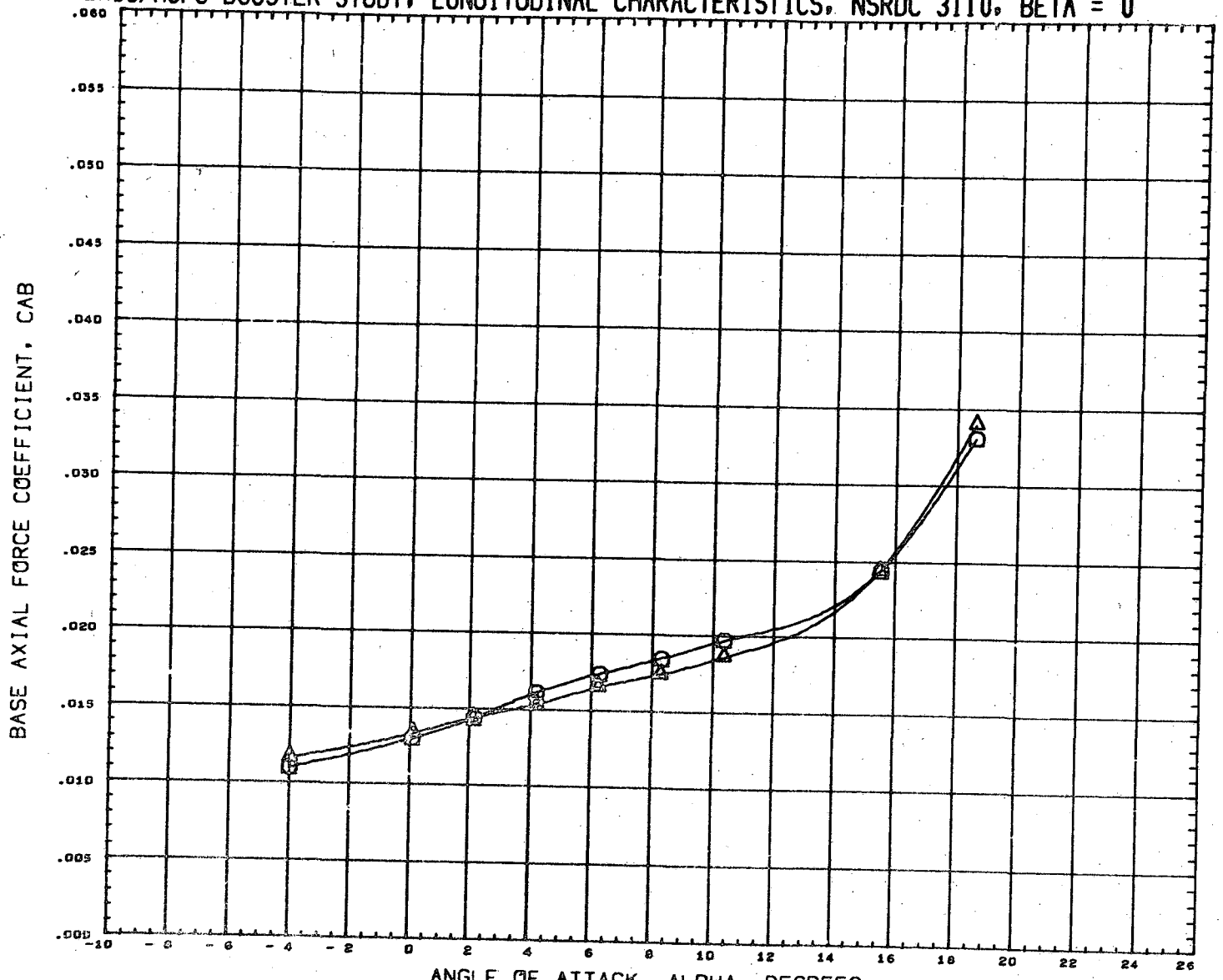
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2081)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2145)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	2.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



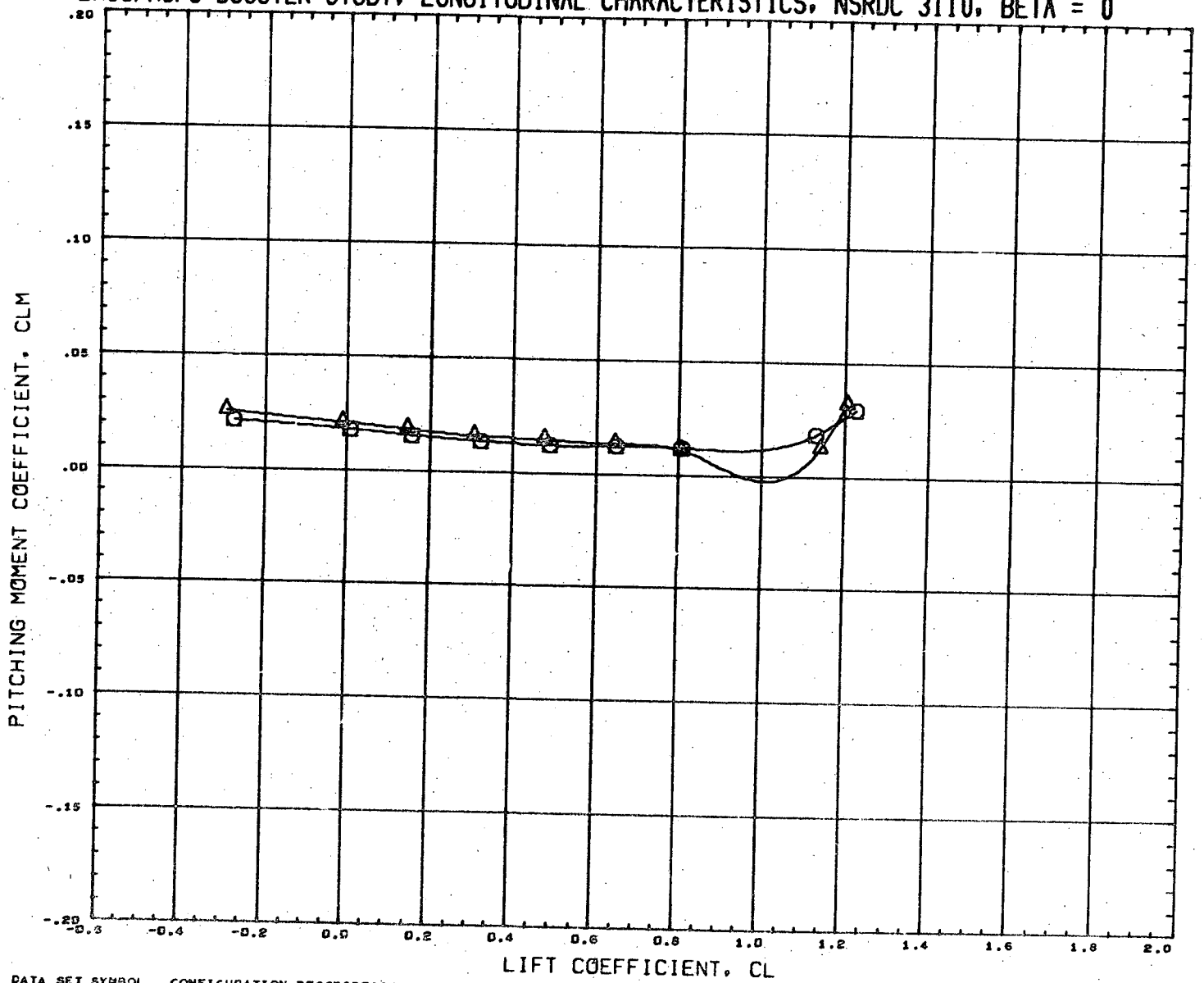
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2081)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000
(RN2145)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



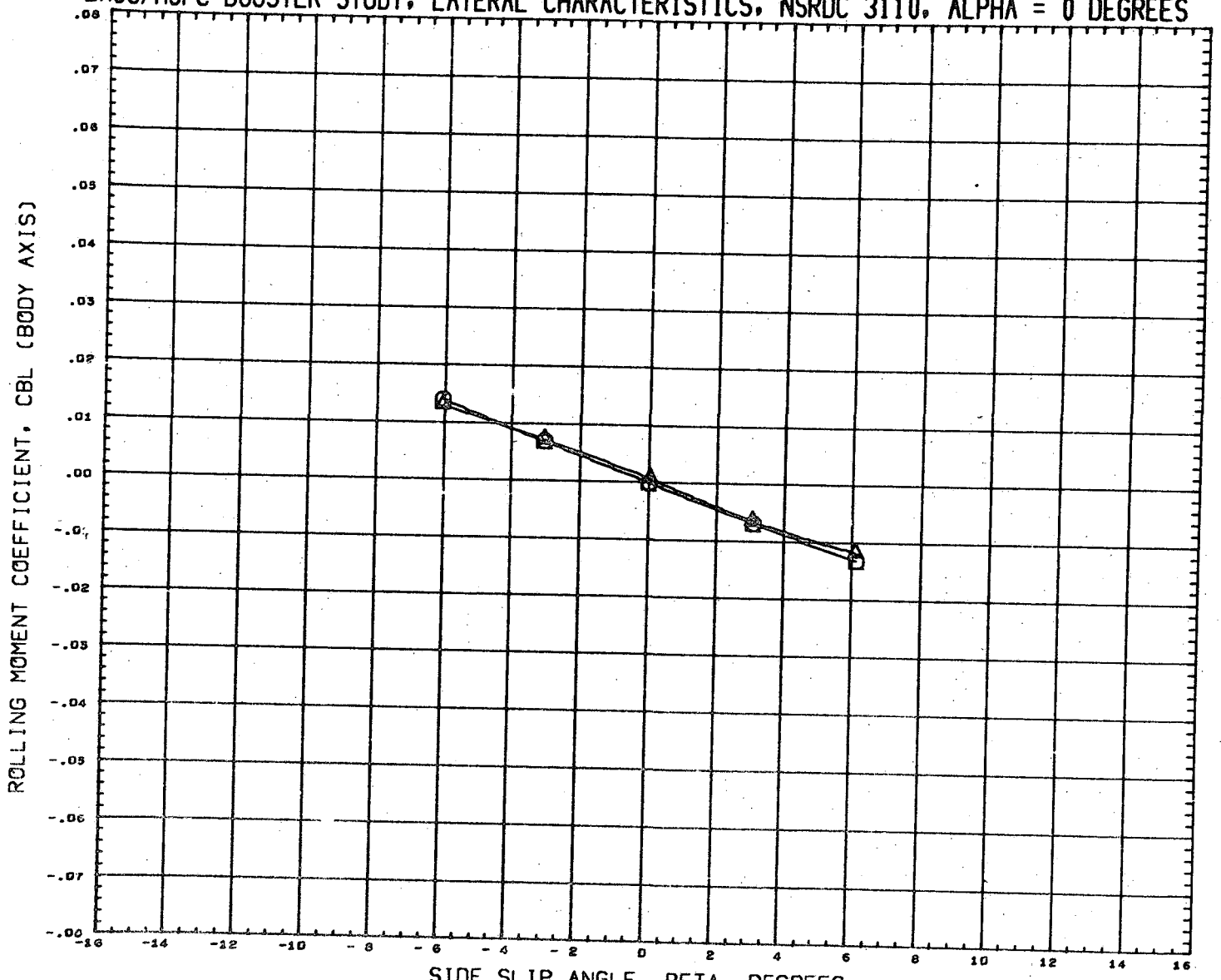
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2145)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	2.000
3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



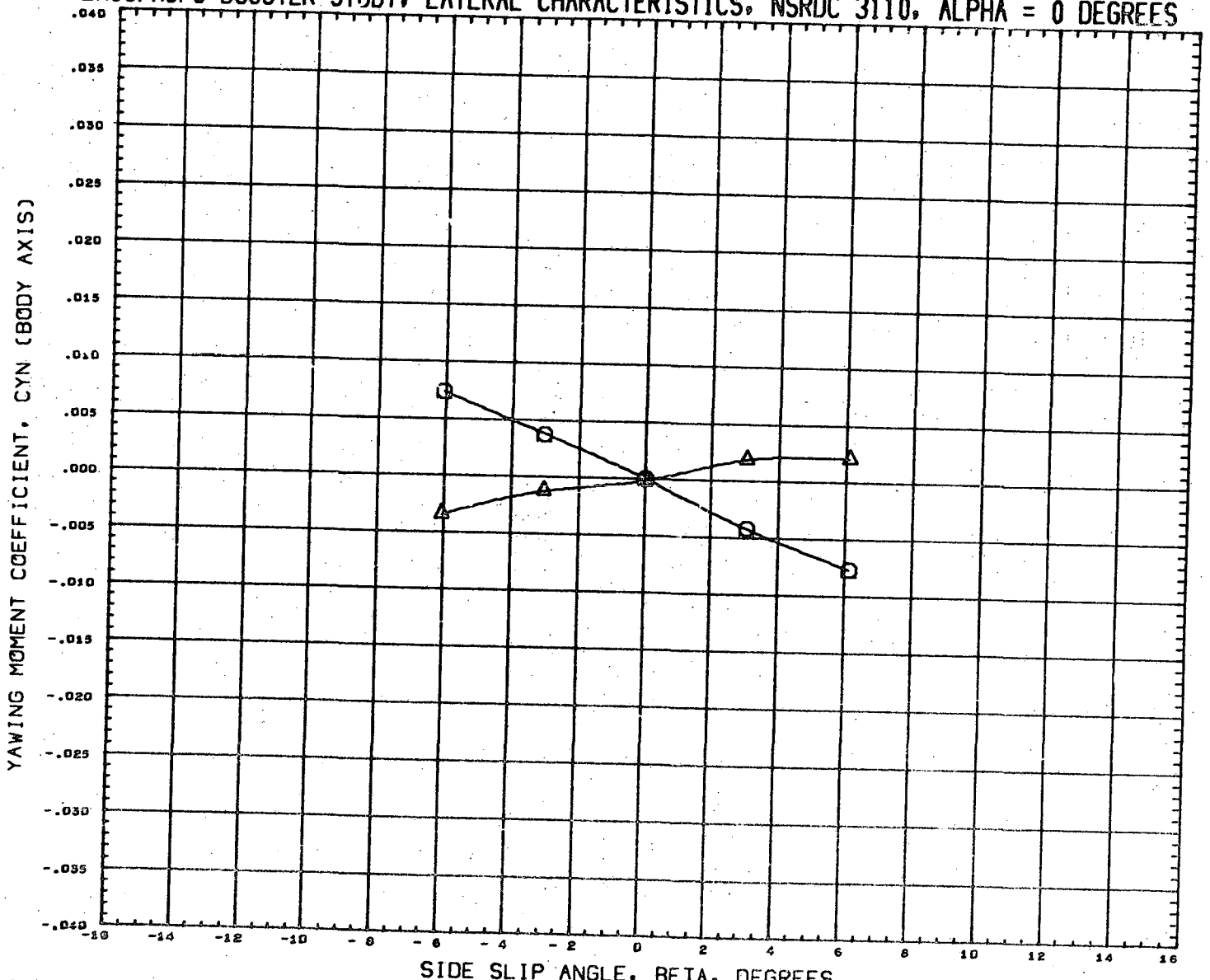
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2062)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000
(RN2146)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

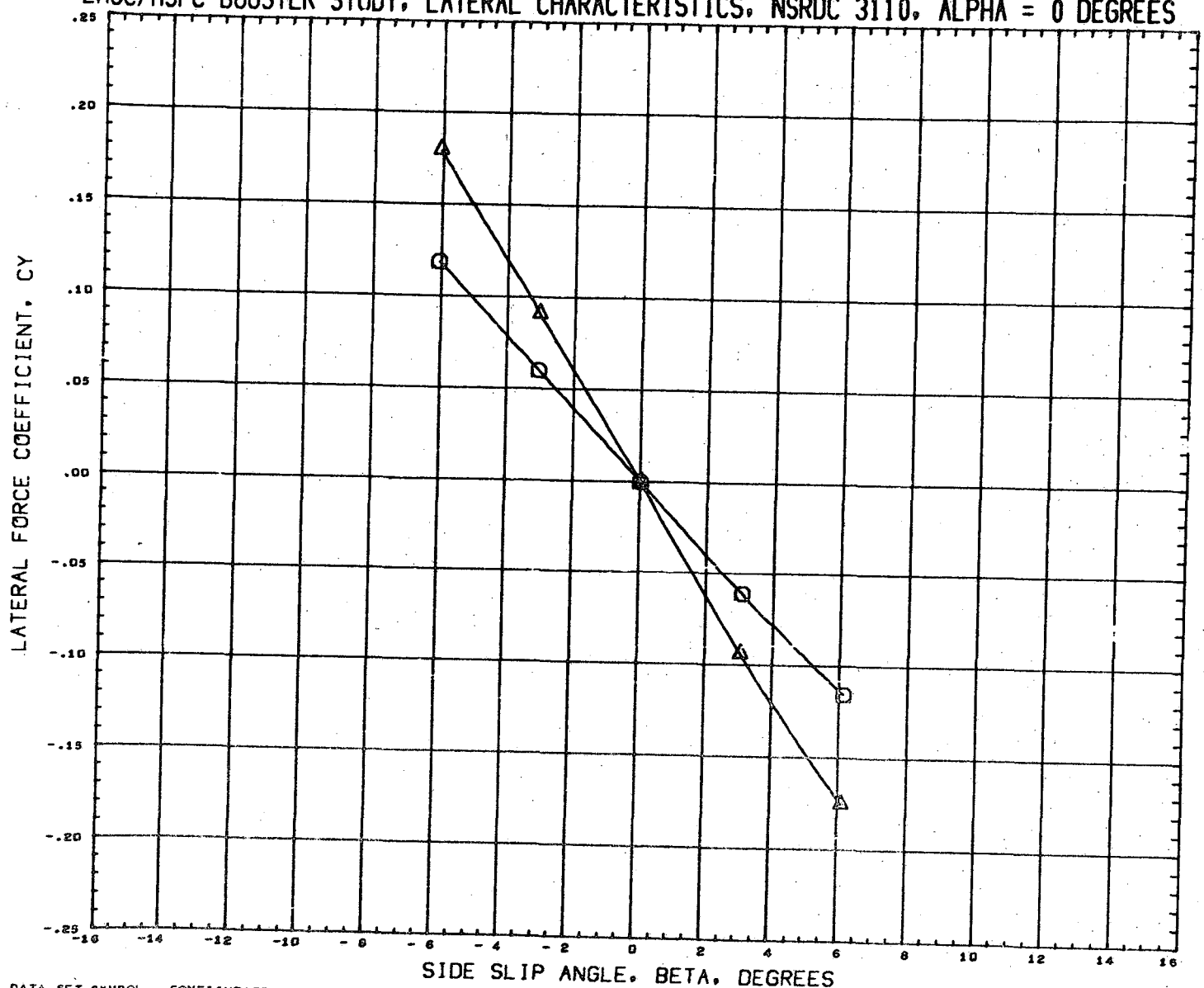


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2082) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000
(RN2146) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

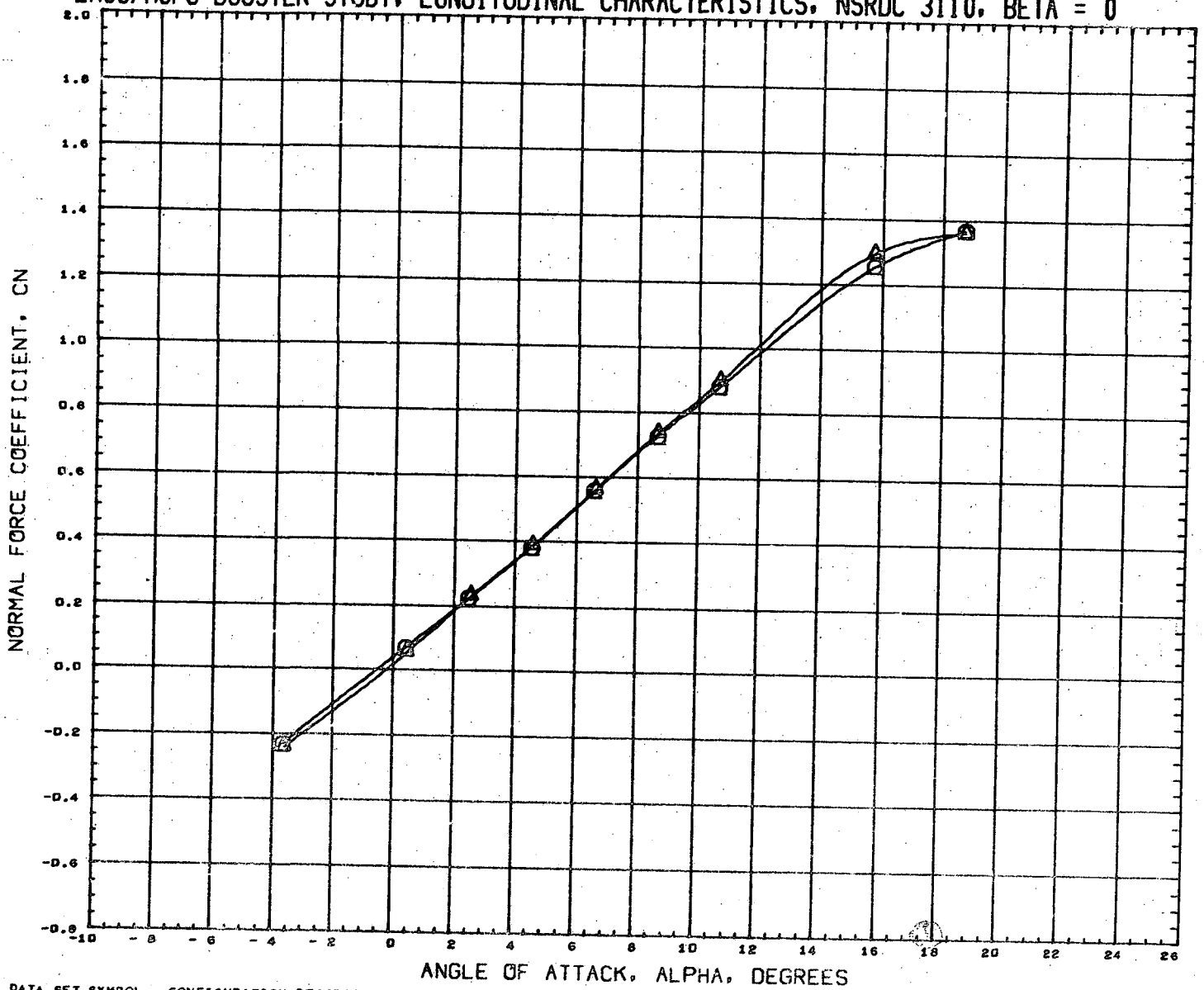


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2082)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000
(RN2146)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØØSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

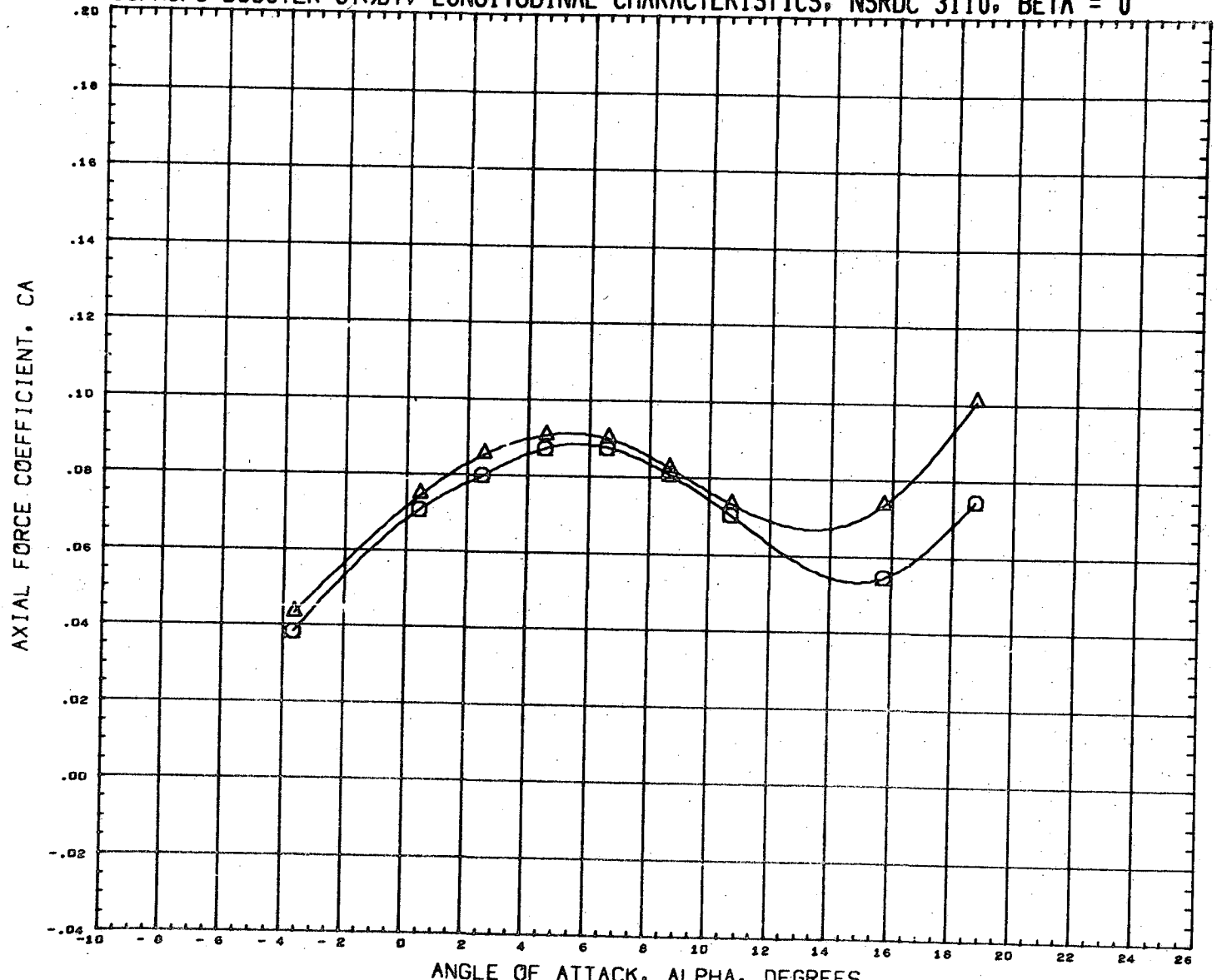


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2085)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000
(RN2149)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

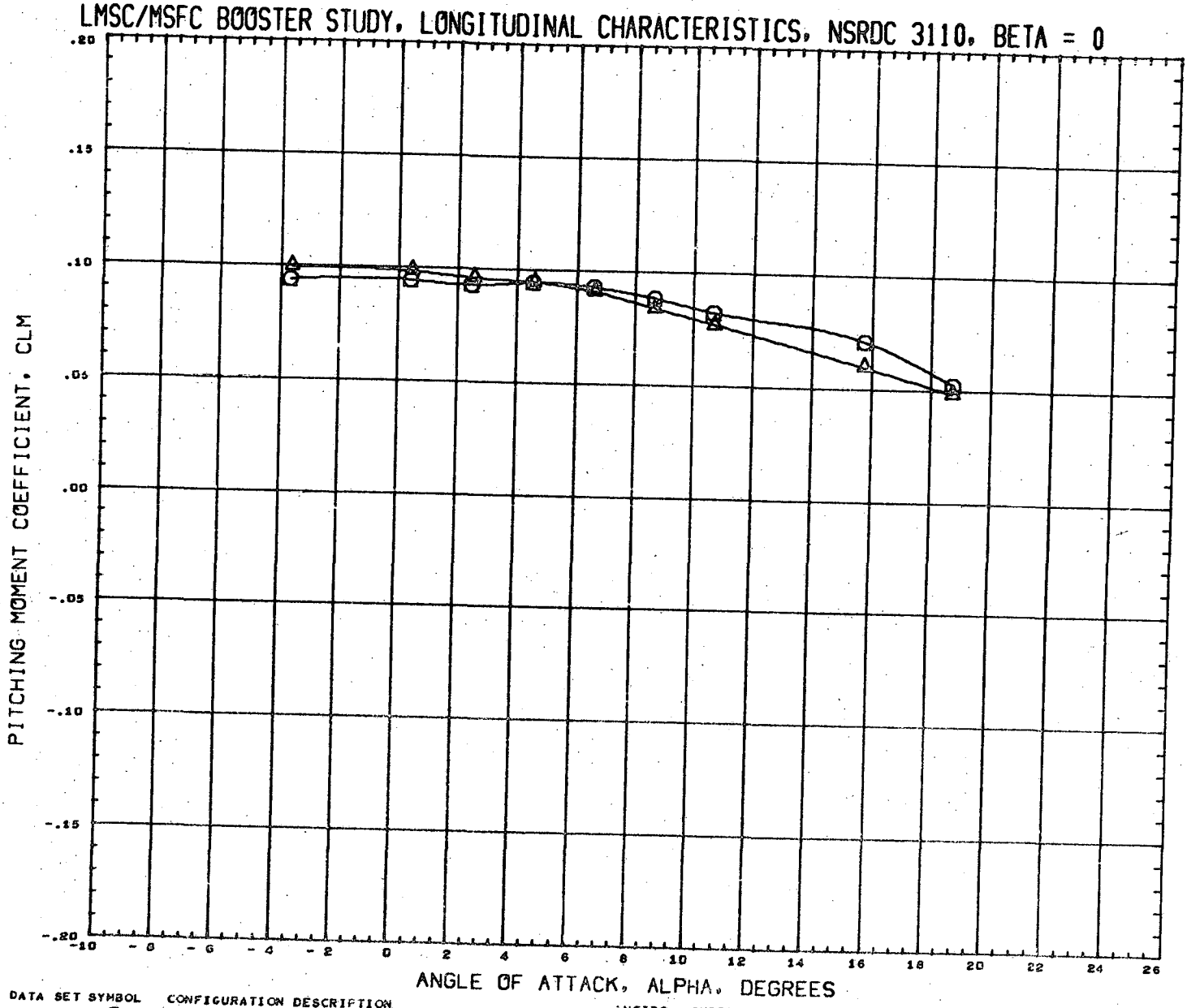


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2085)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000
(RN2149)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

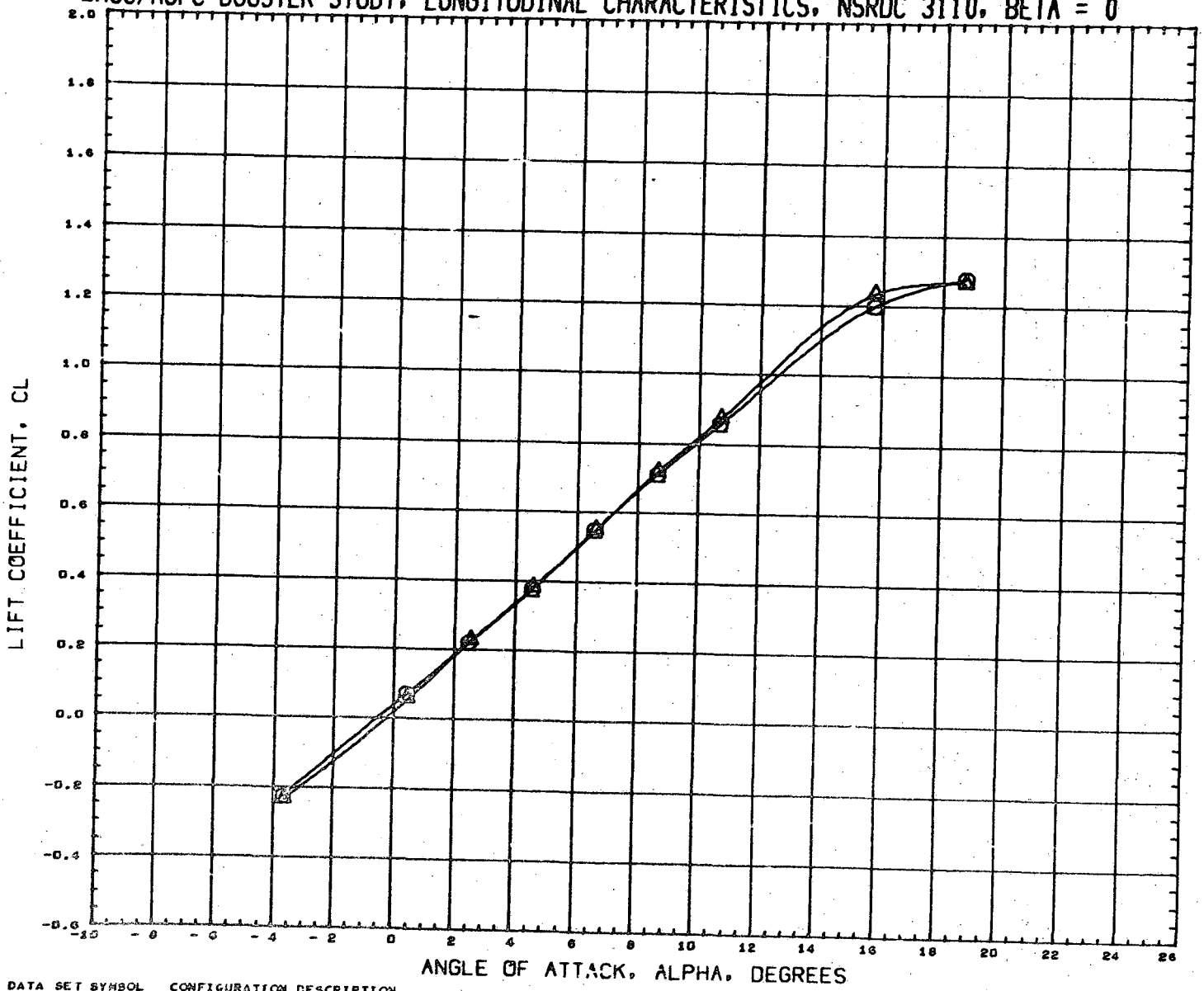


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2085)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000
(RN2149)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	13.000	1.000	0.000	2.000

MACH 0.301

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

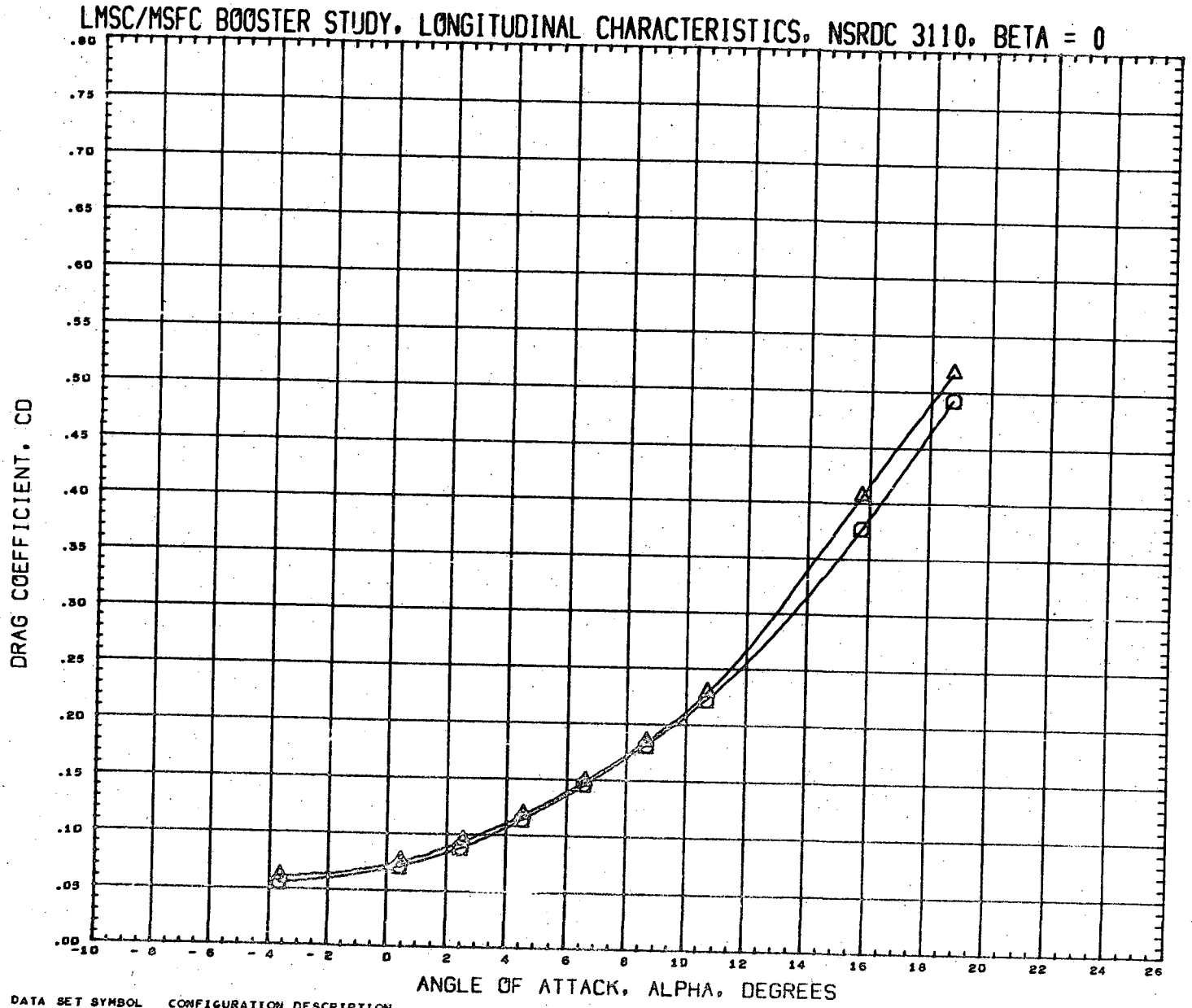


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2085)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2149)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



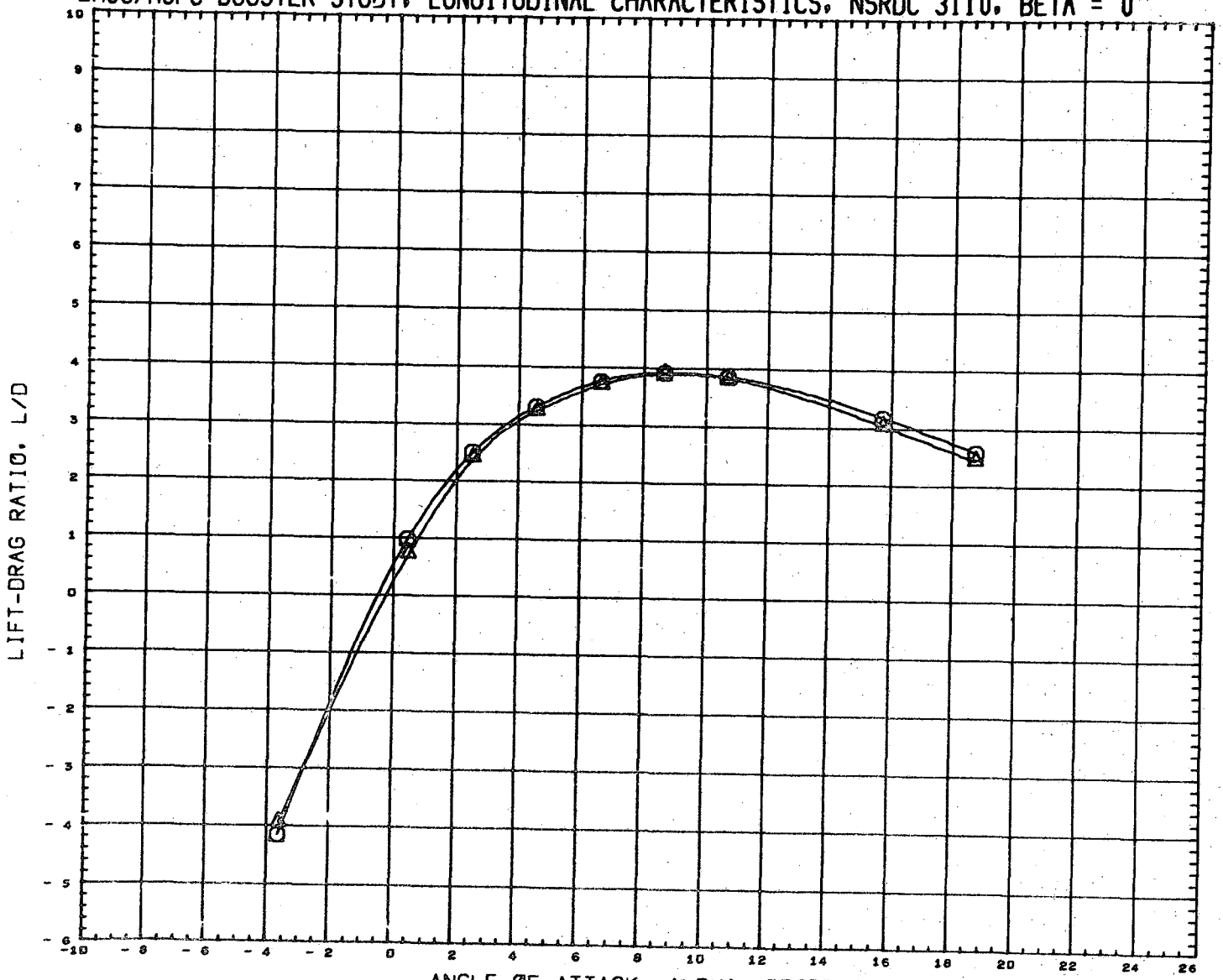
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2085)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2149)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

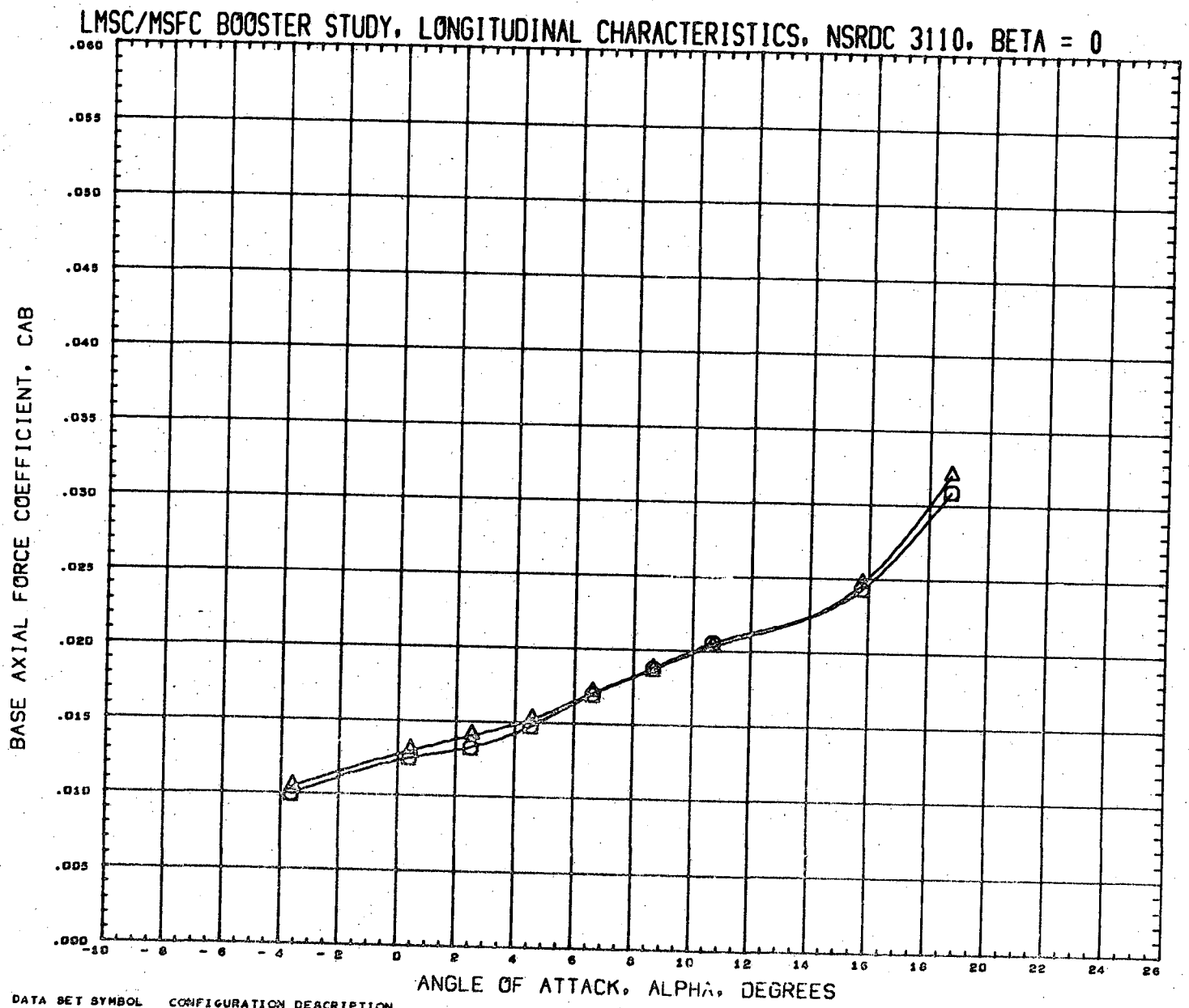


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2085)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000
(RN2149)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION

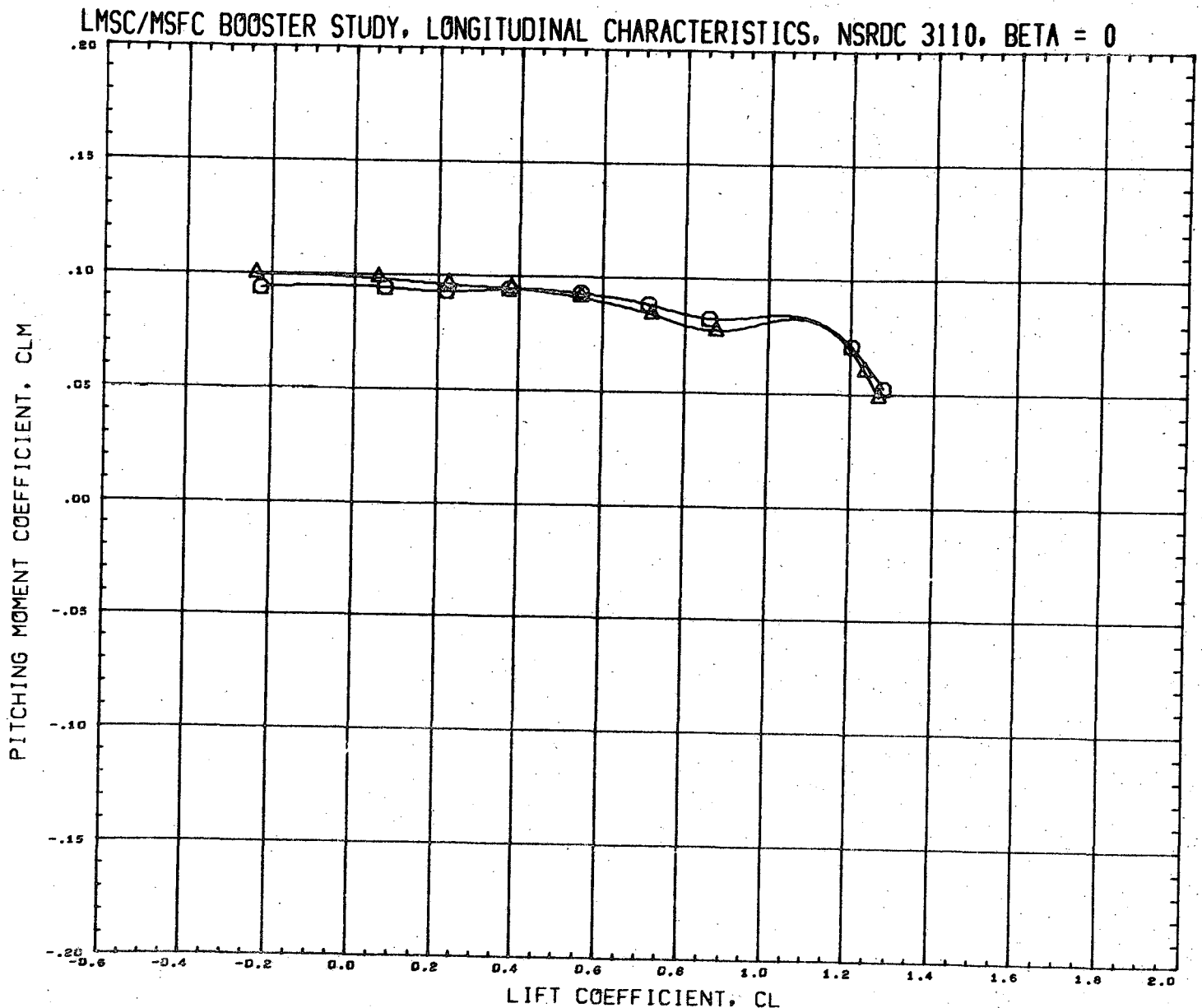
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2085) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000
(RN2149) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

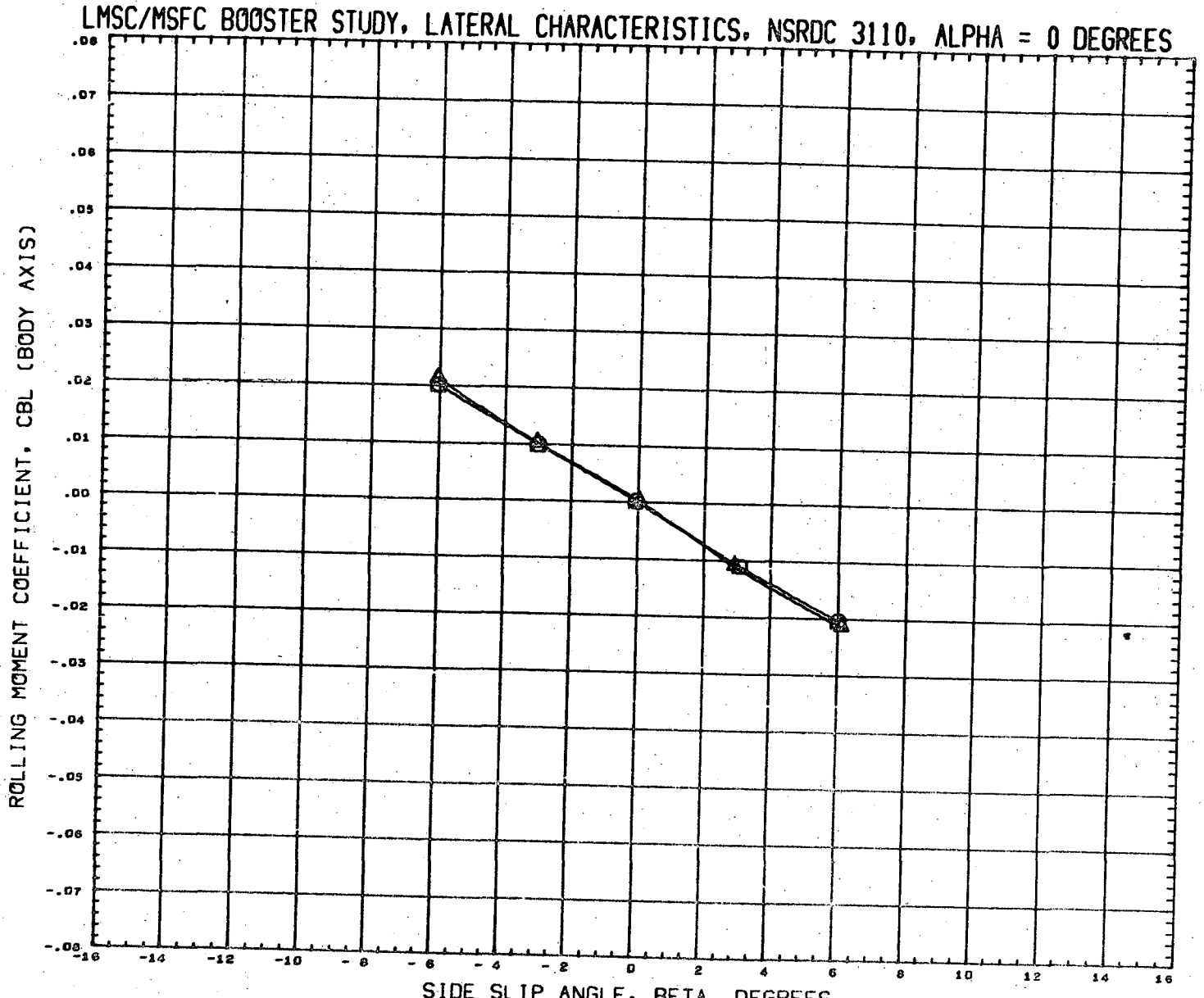


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2085)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000
(RN2149)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

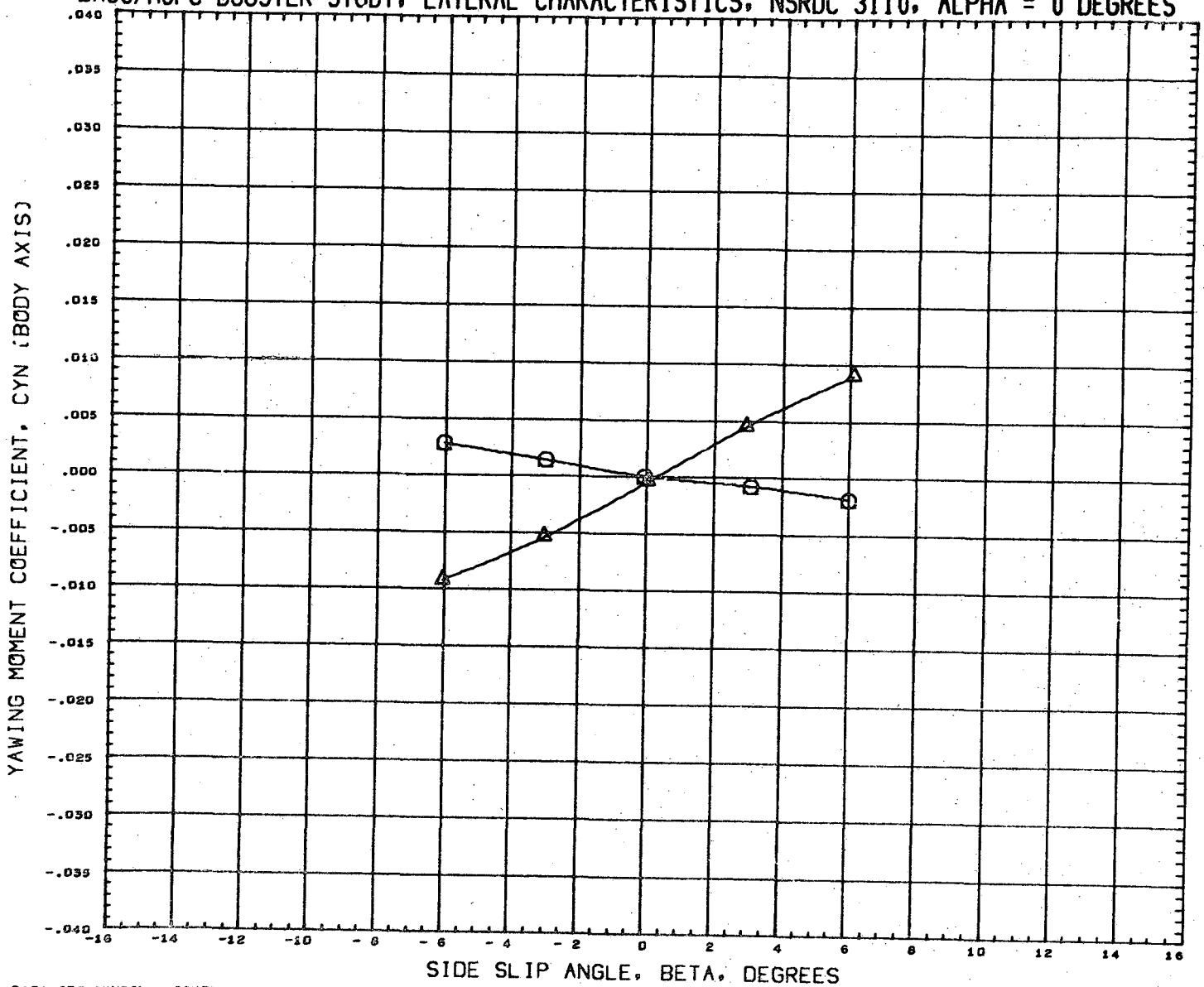


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2086)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000
(RN2150)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØØSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

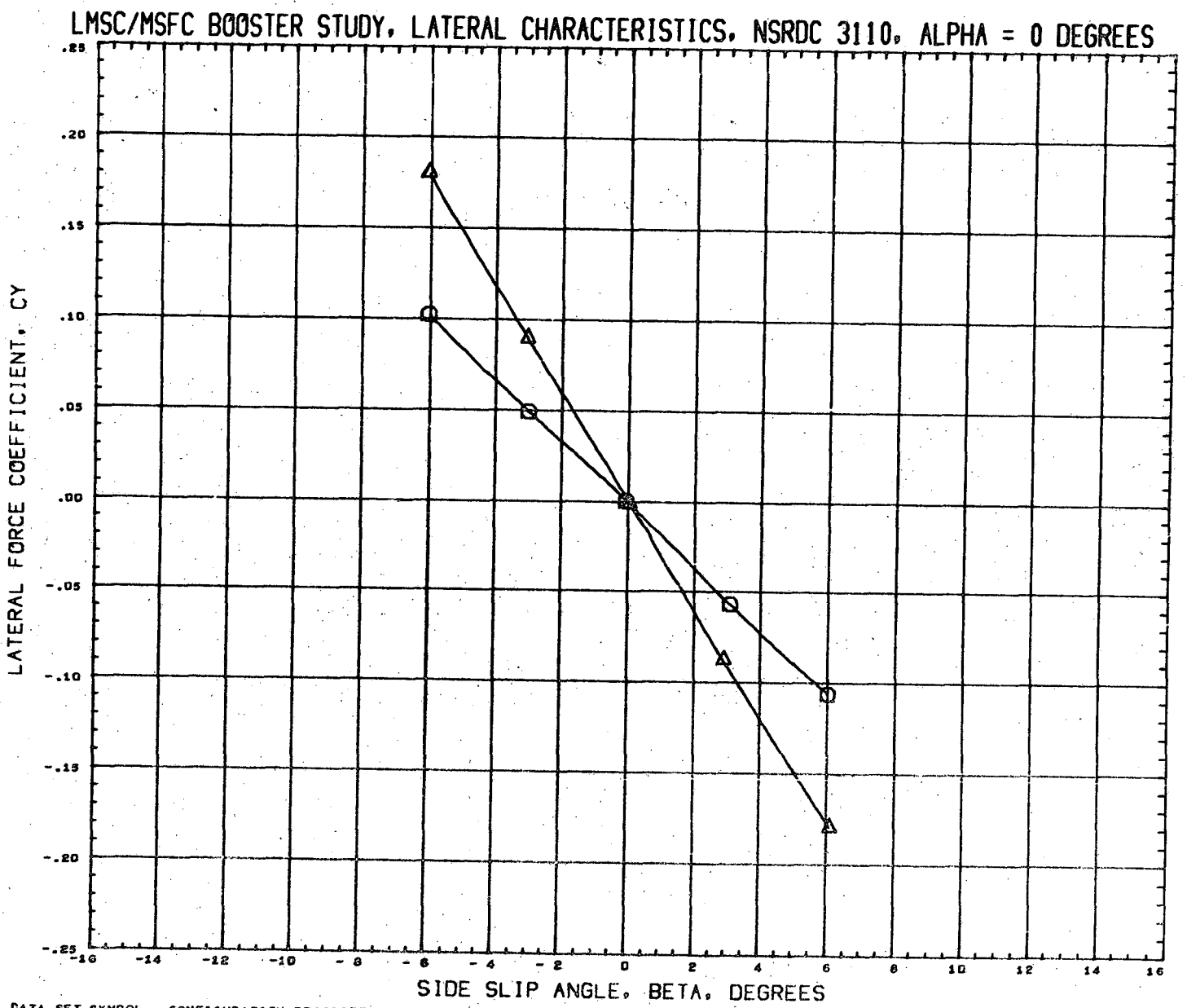


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2086)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000
(RN2150)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

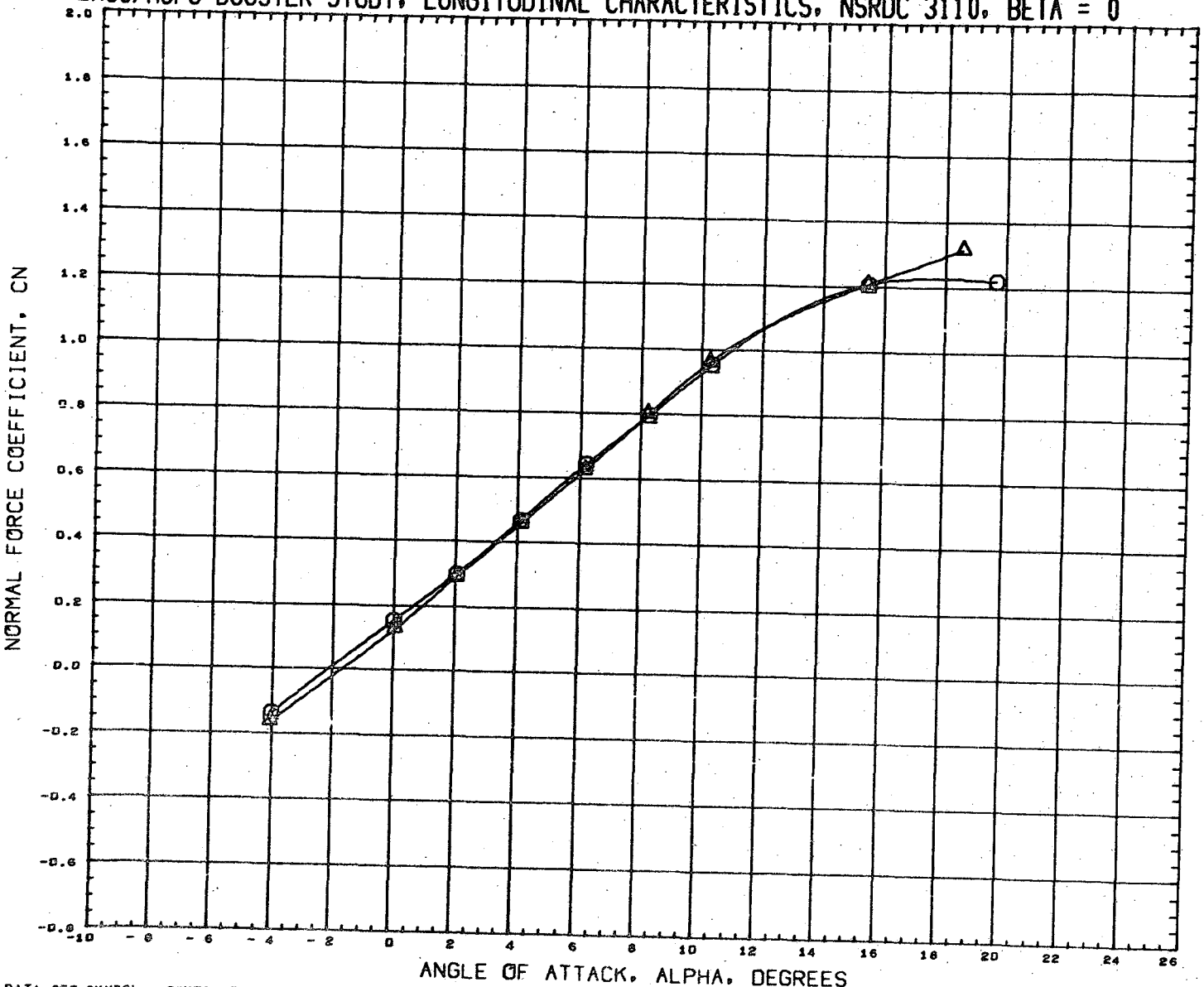


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2086)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000
(RN2150)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

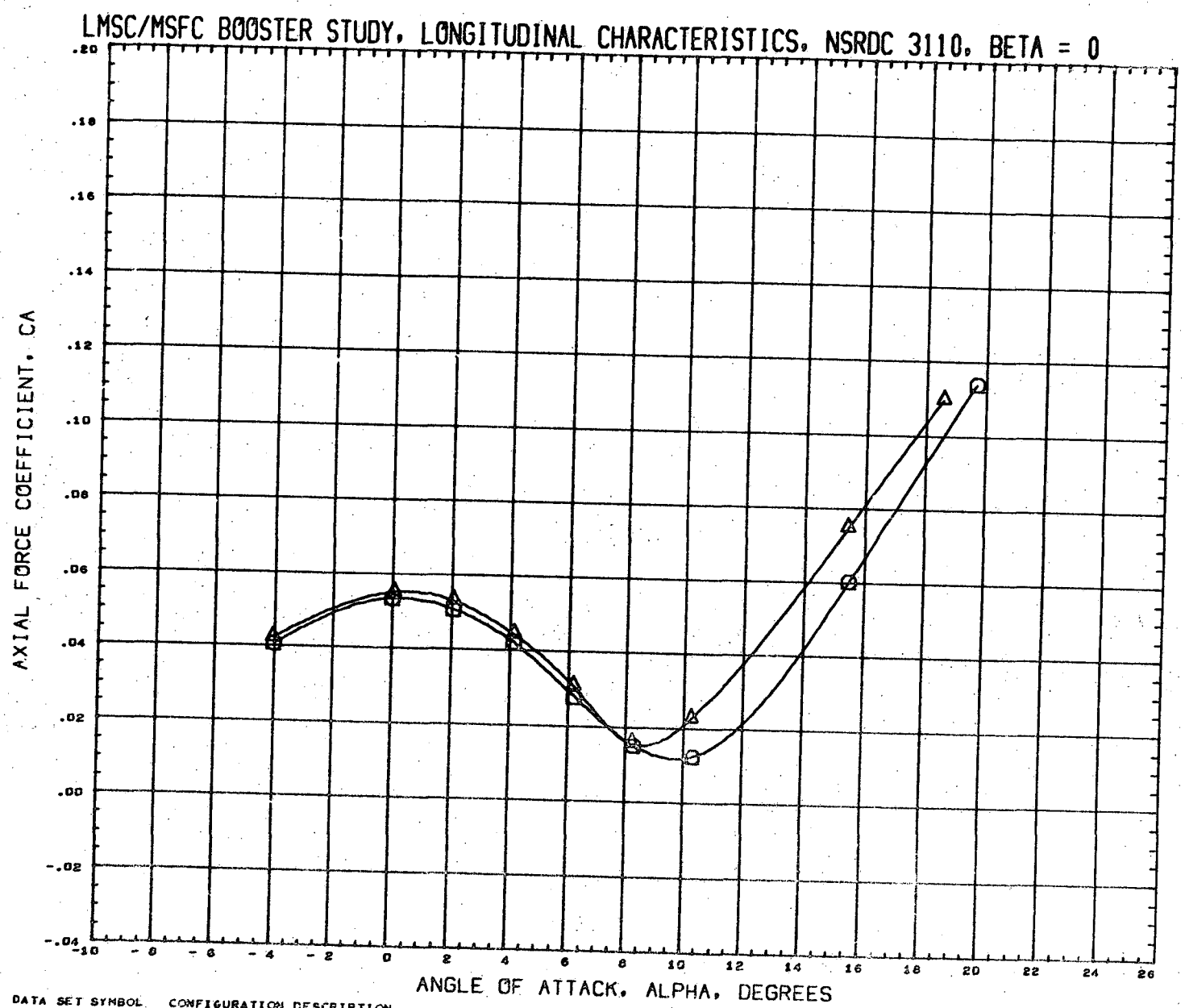
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2113)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000
(RN2177)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RN2113) NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

(RN2177) NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

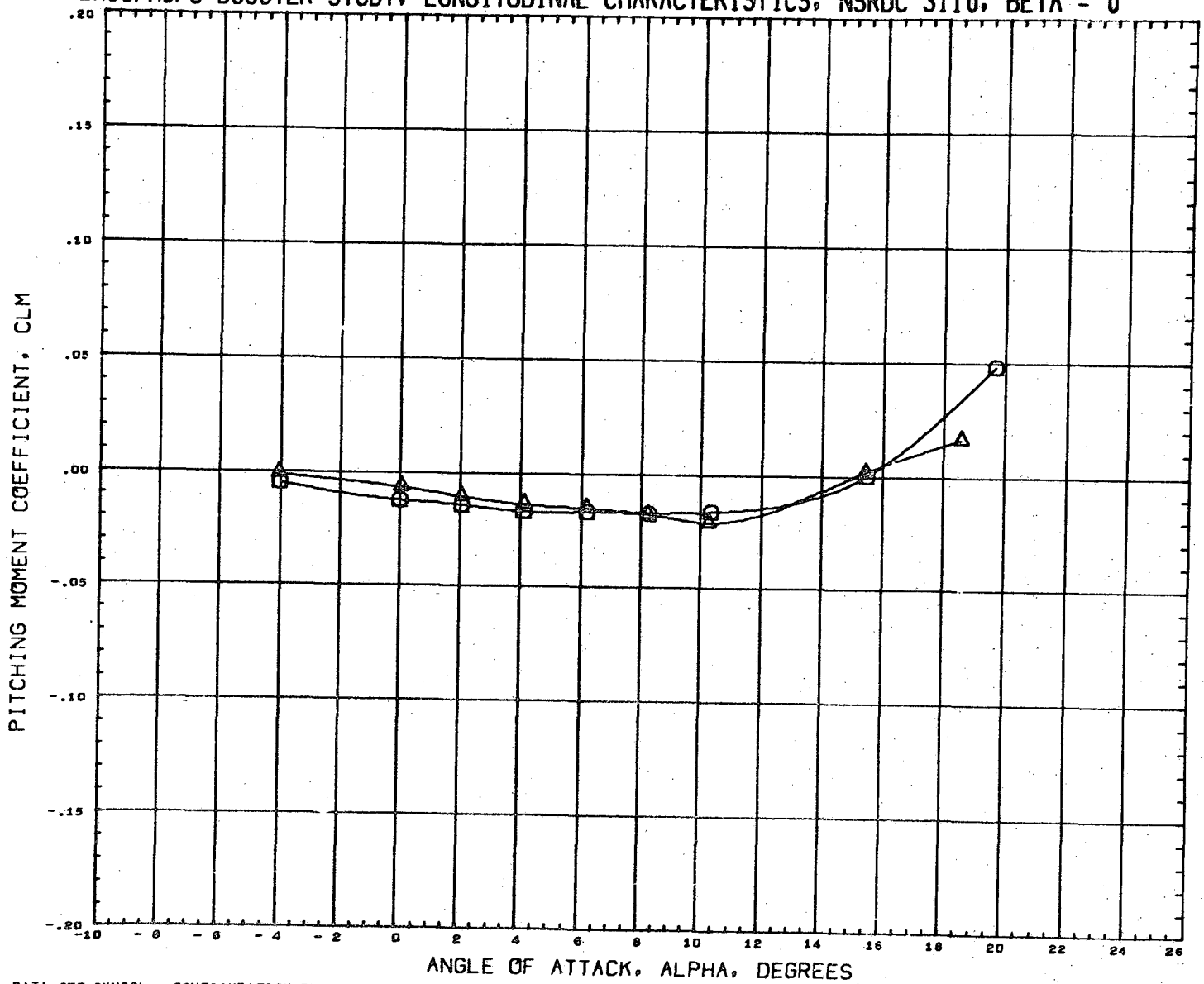
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.300

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

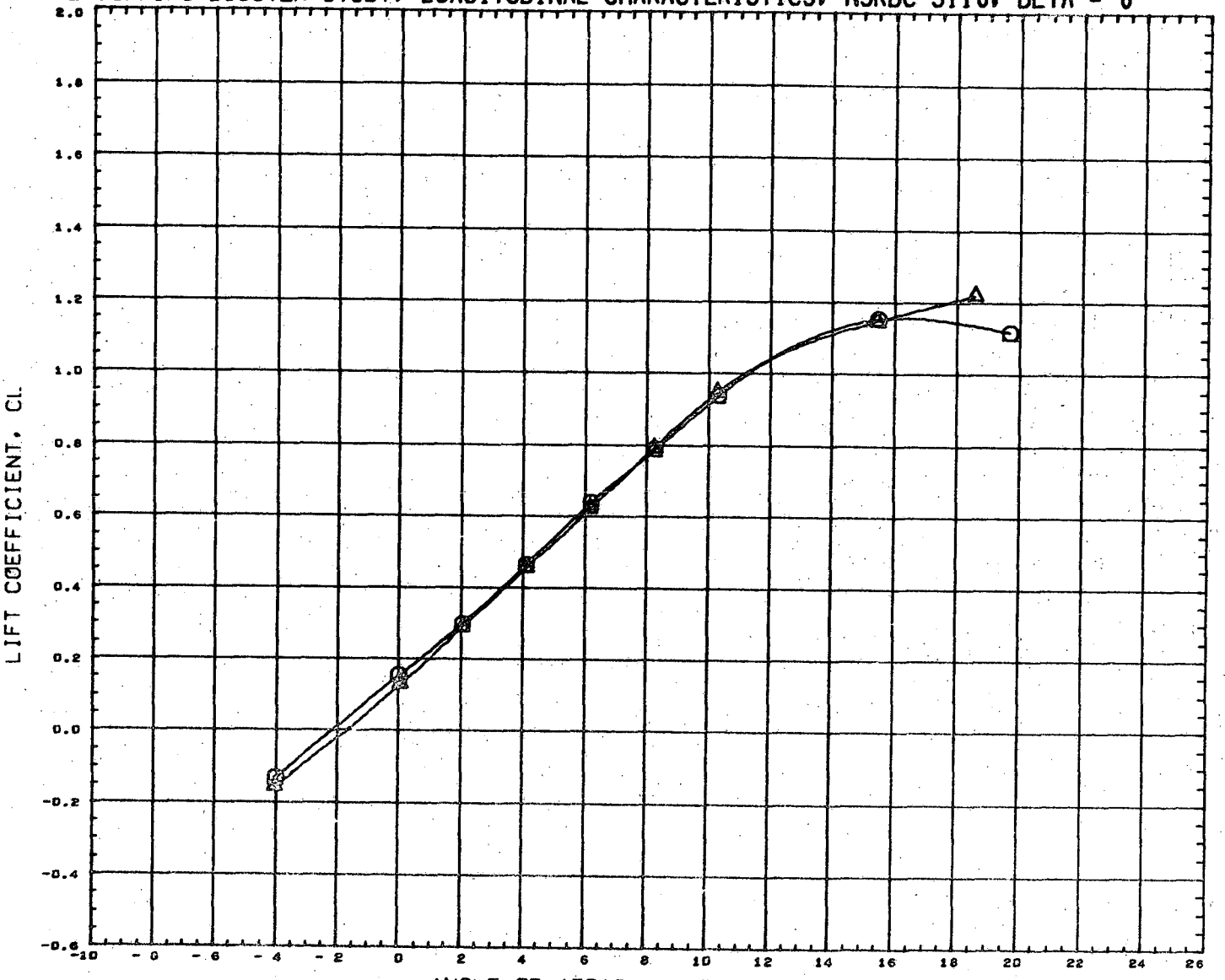


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2113)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000
(RN2177)		NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

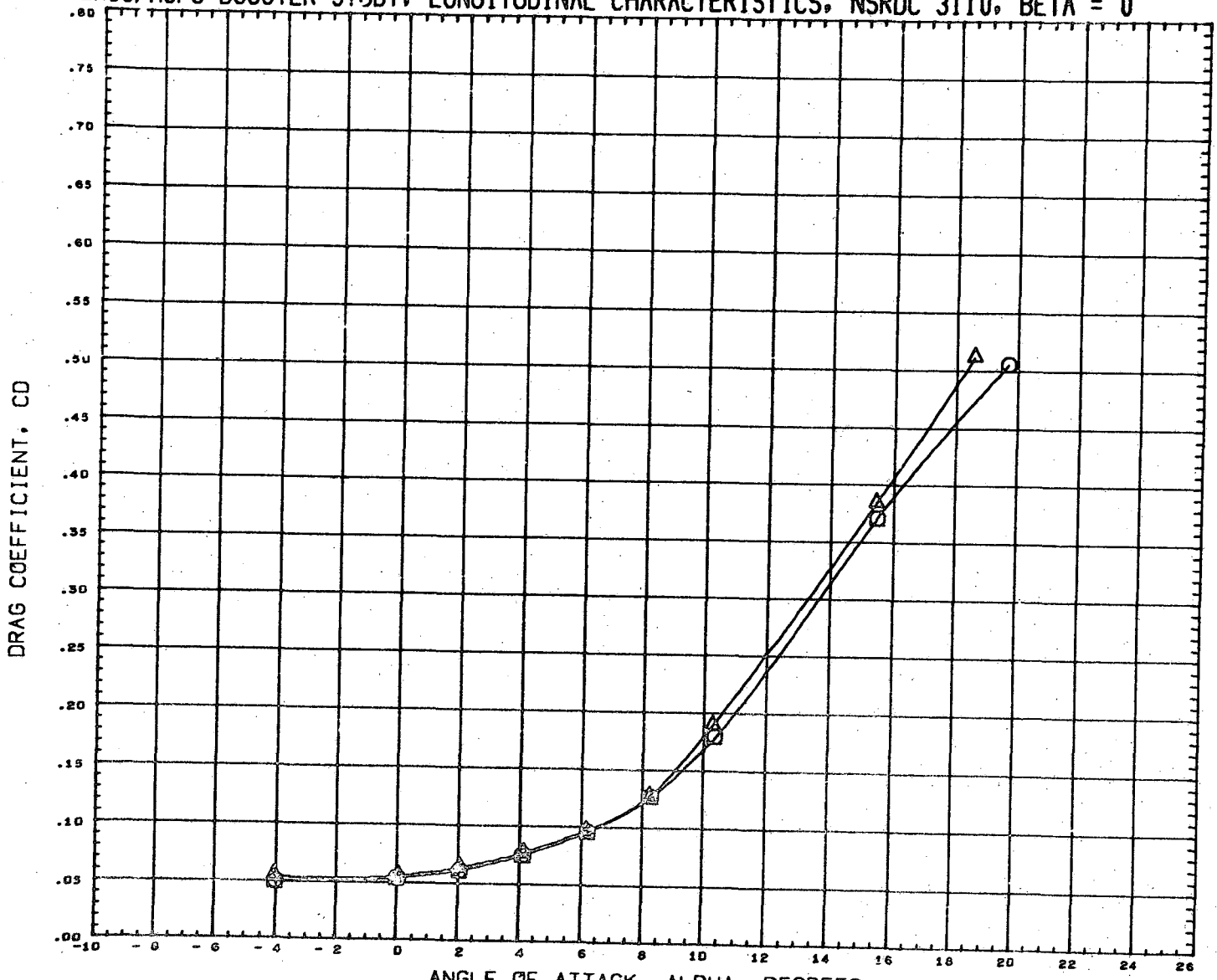


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2113)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000
(RN2177)		NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



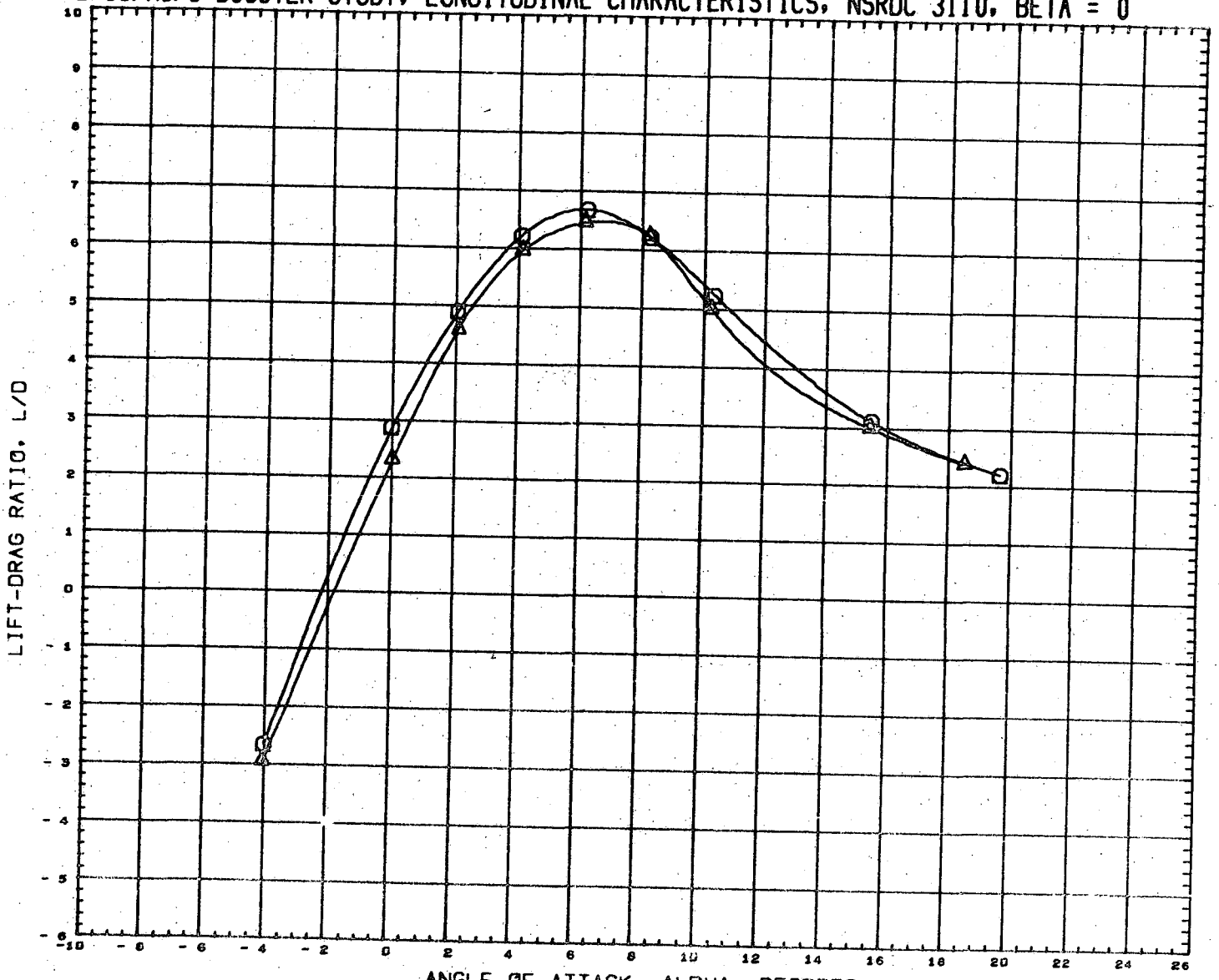
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2113)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2177)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

MACH 0.300

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



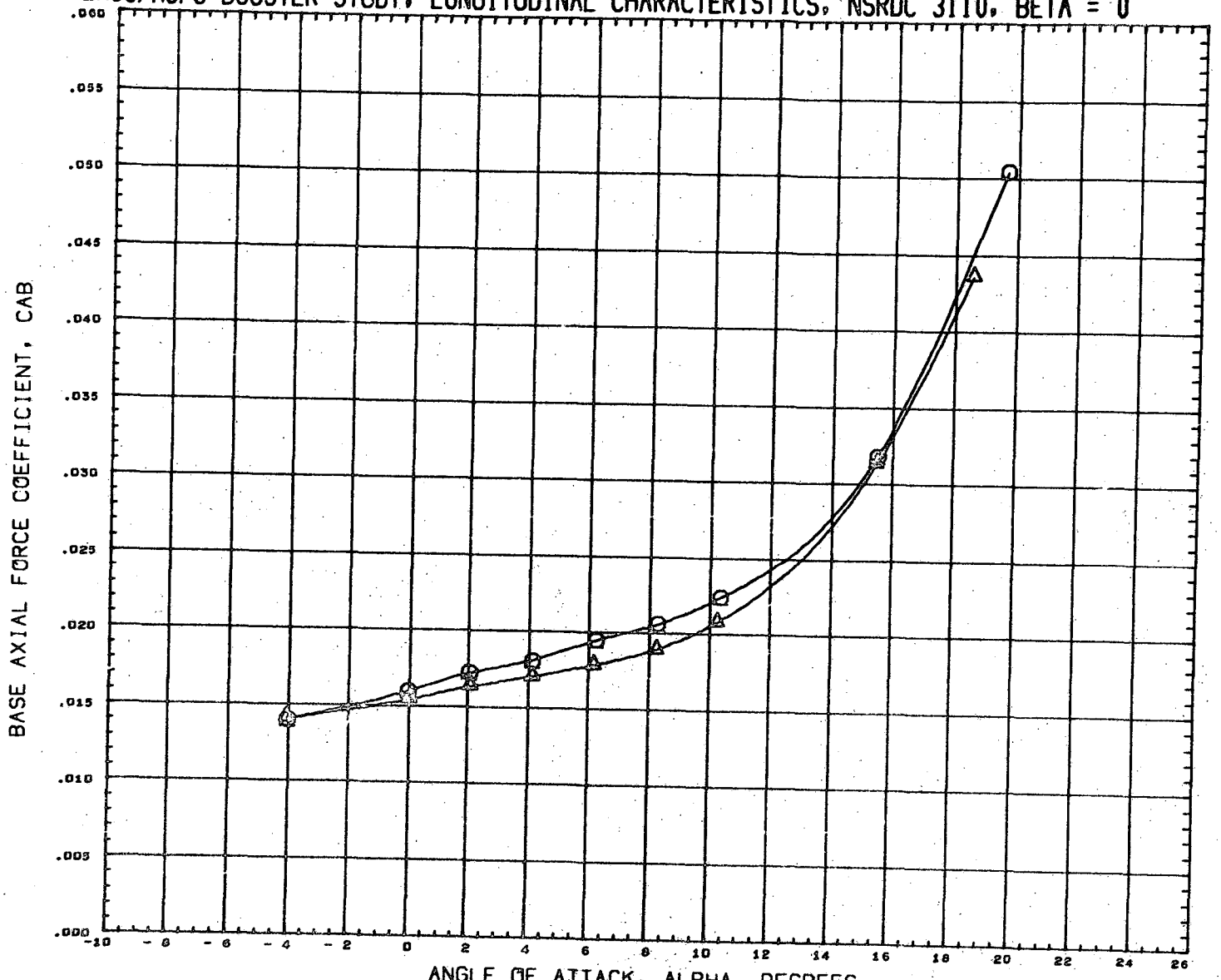
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2113)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2177)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2113)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2177)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

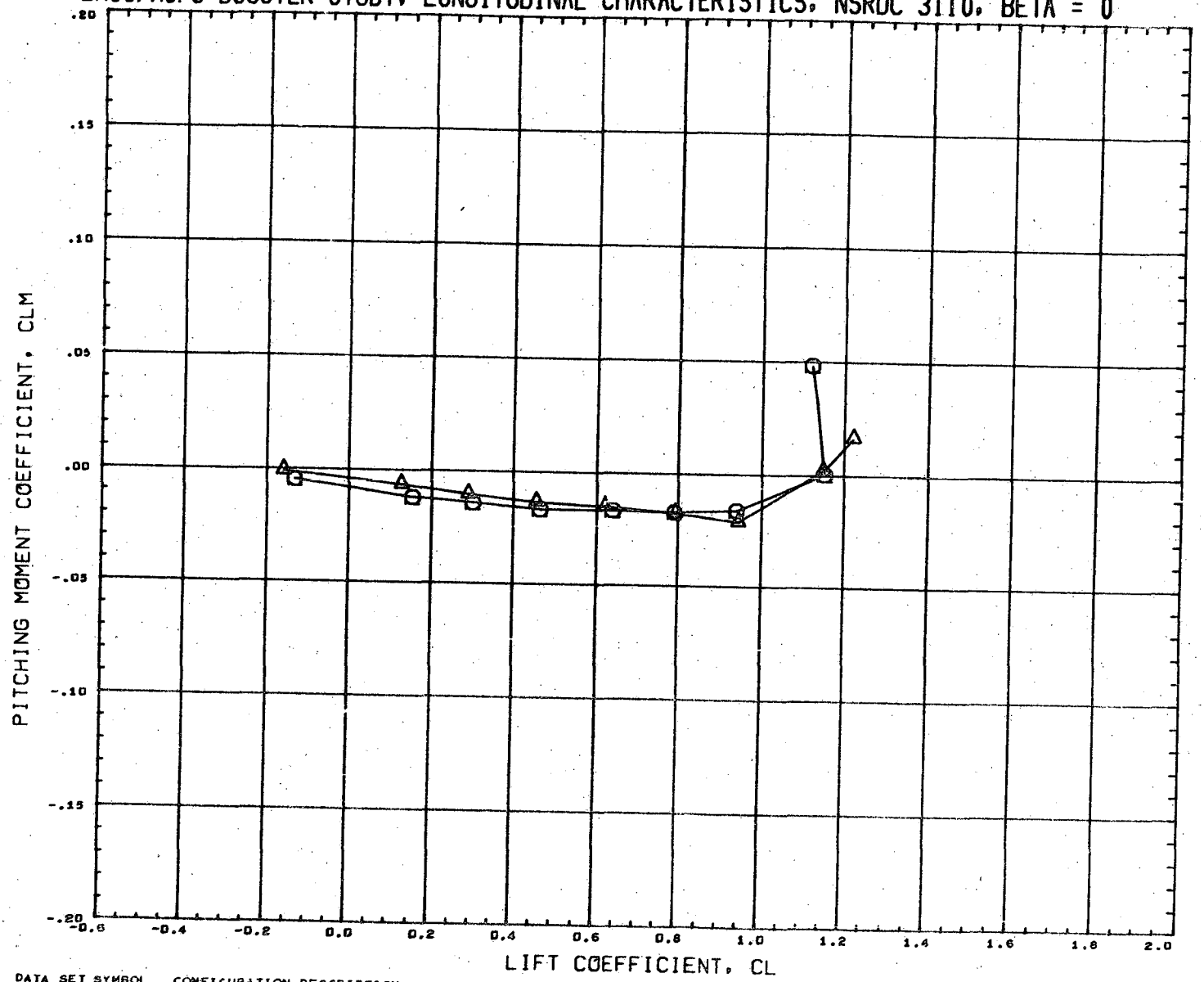
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

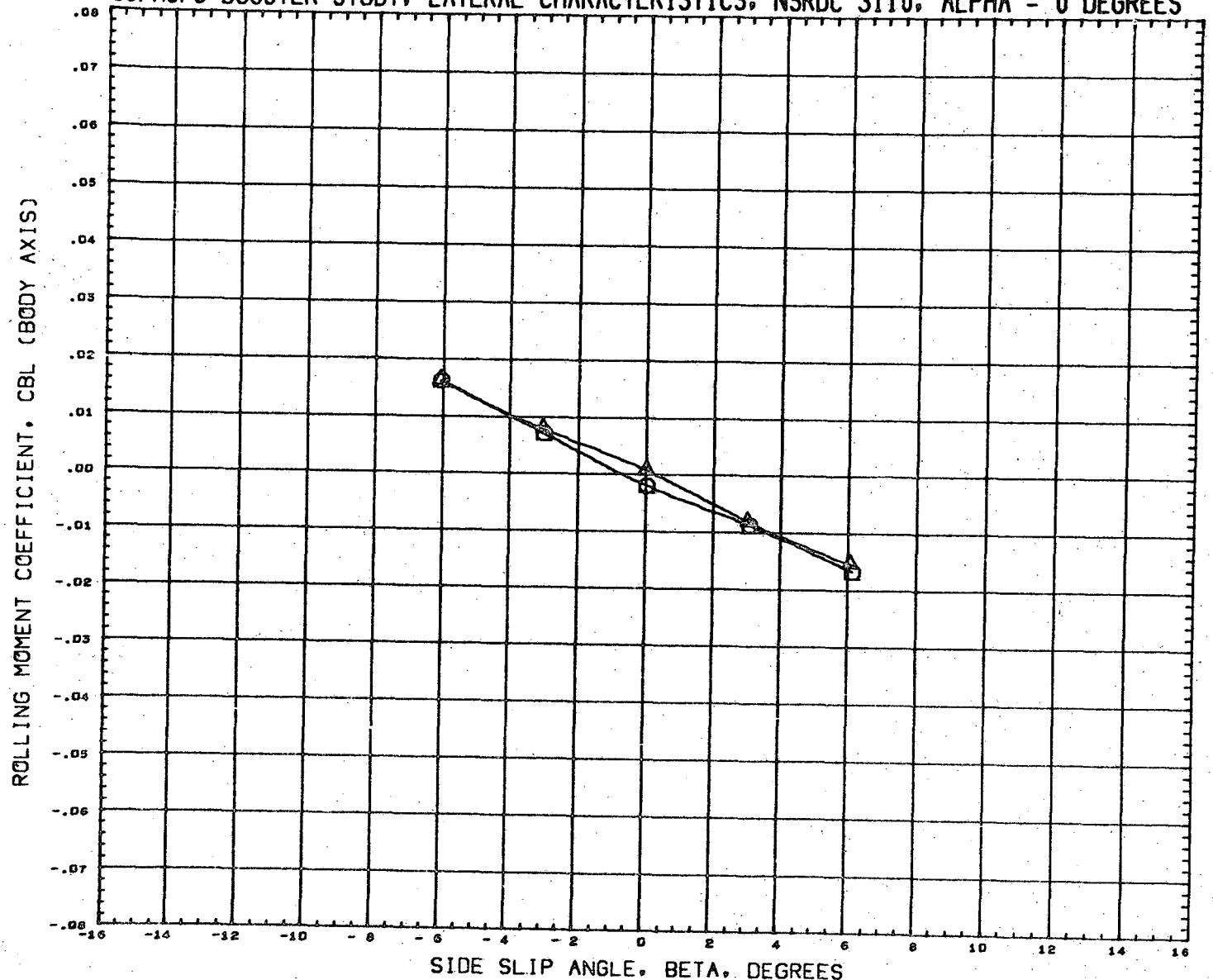


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2113)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000
(RN2177)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

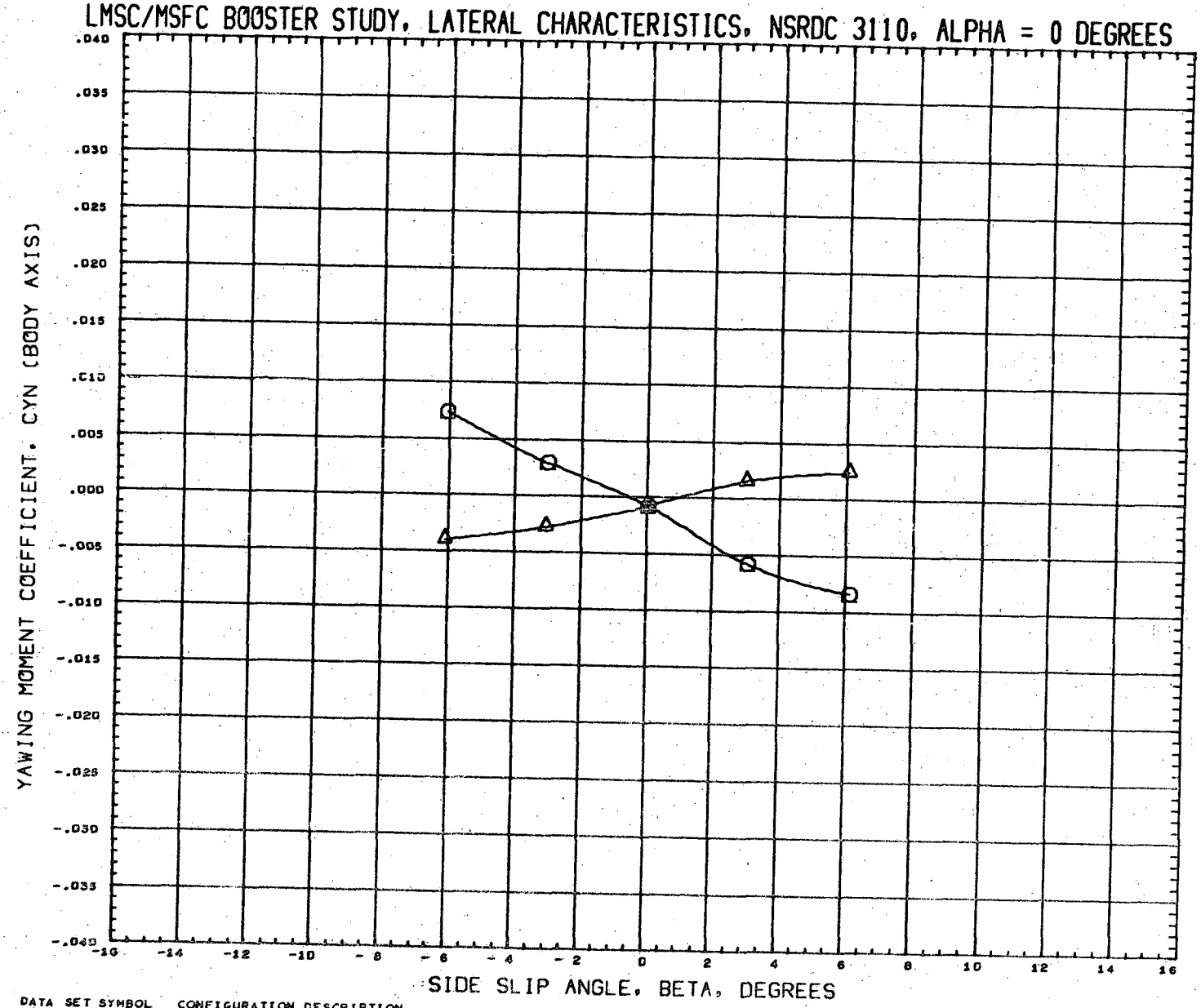
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2114)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000
(RN2178)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.381

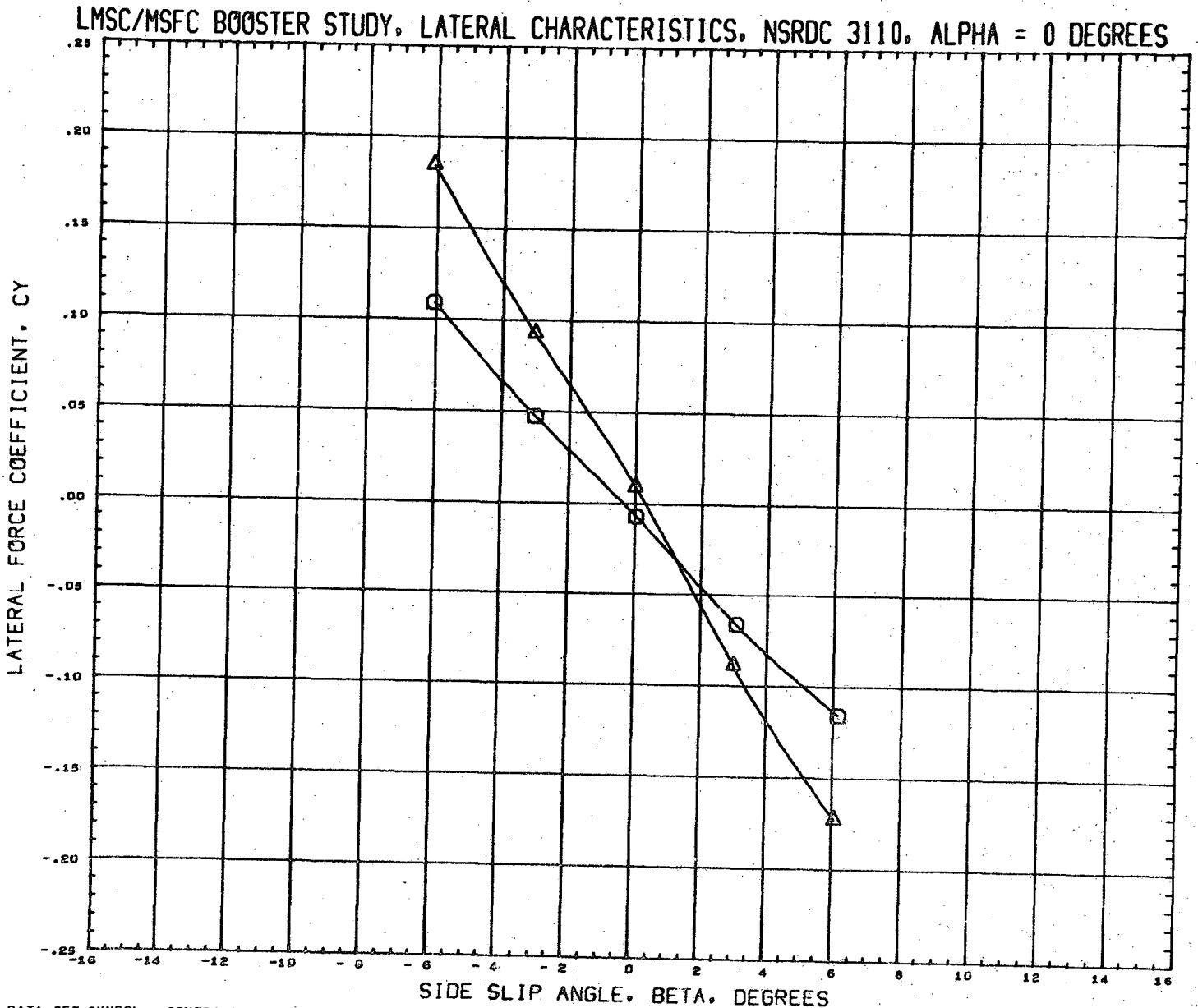
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2114)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000
(RN2178)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

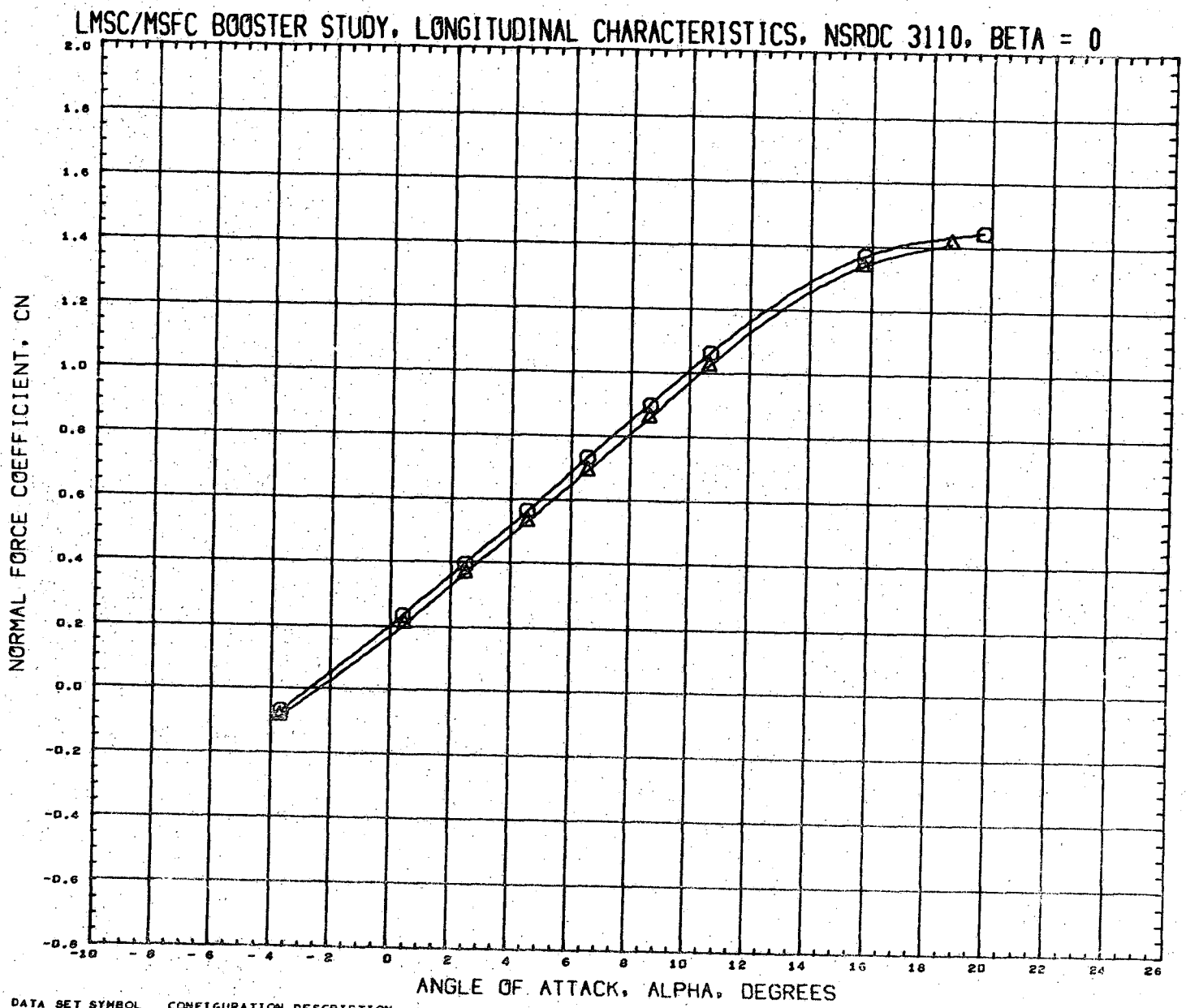


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2114)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000
(RN2170)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION

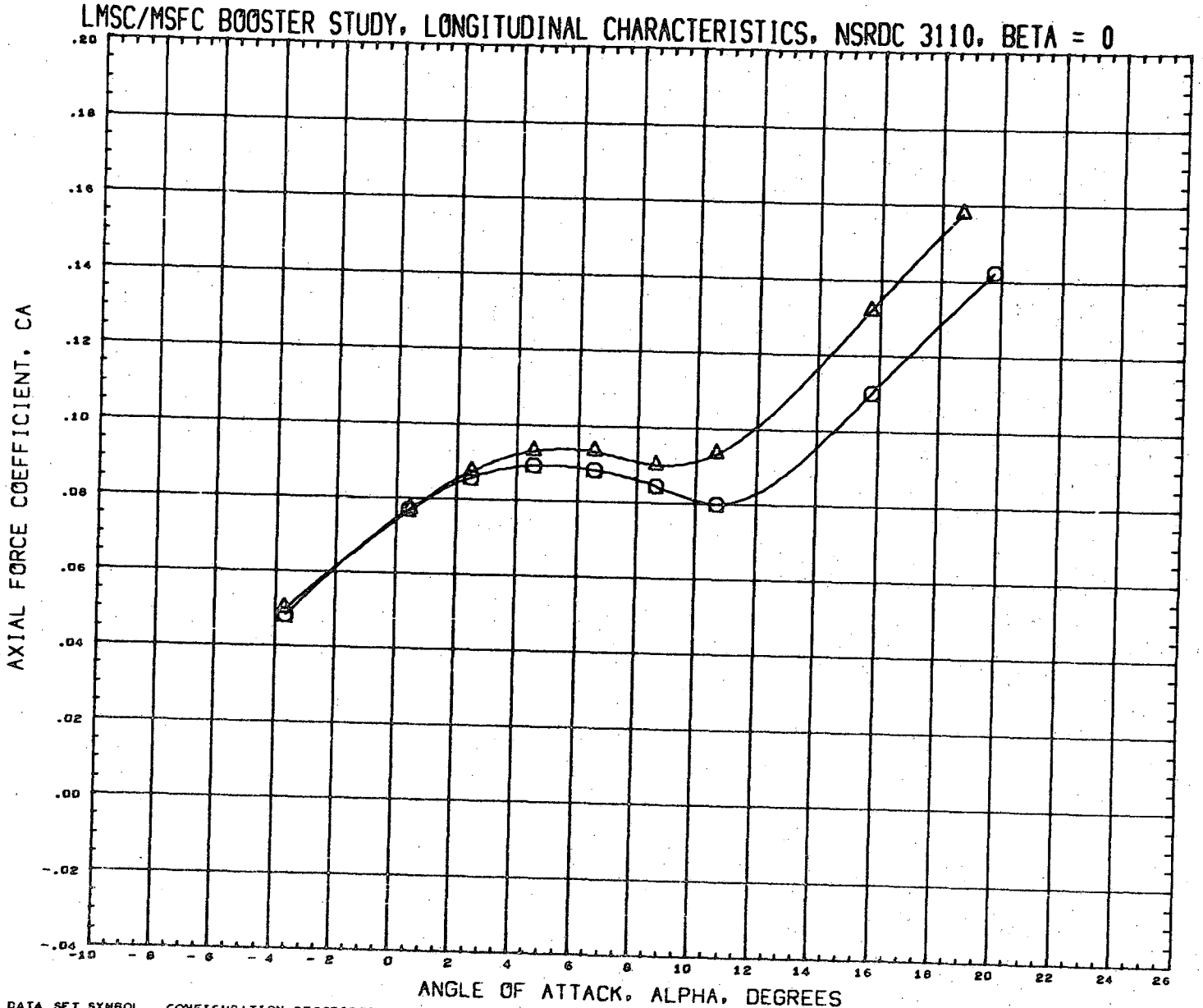
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2117)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000
(RN2181)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

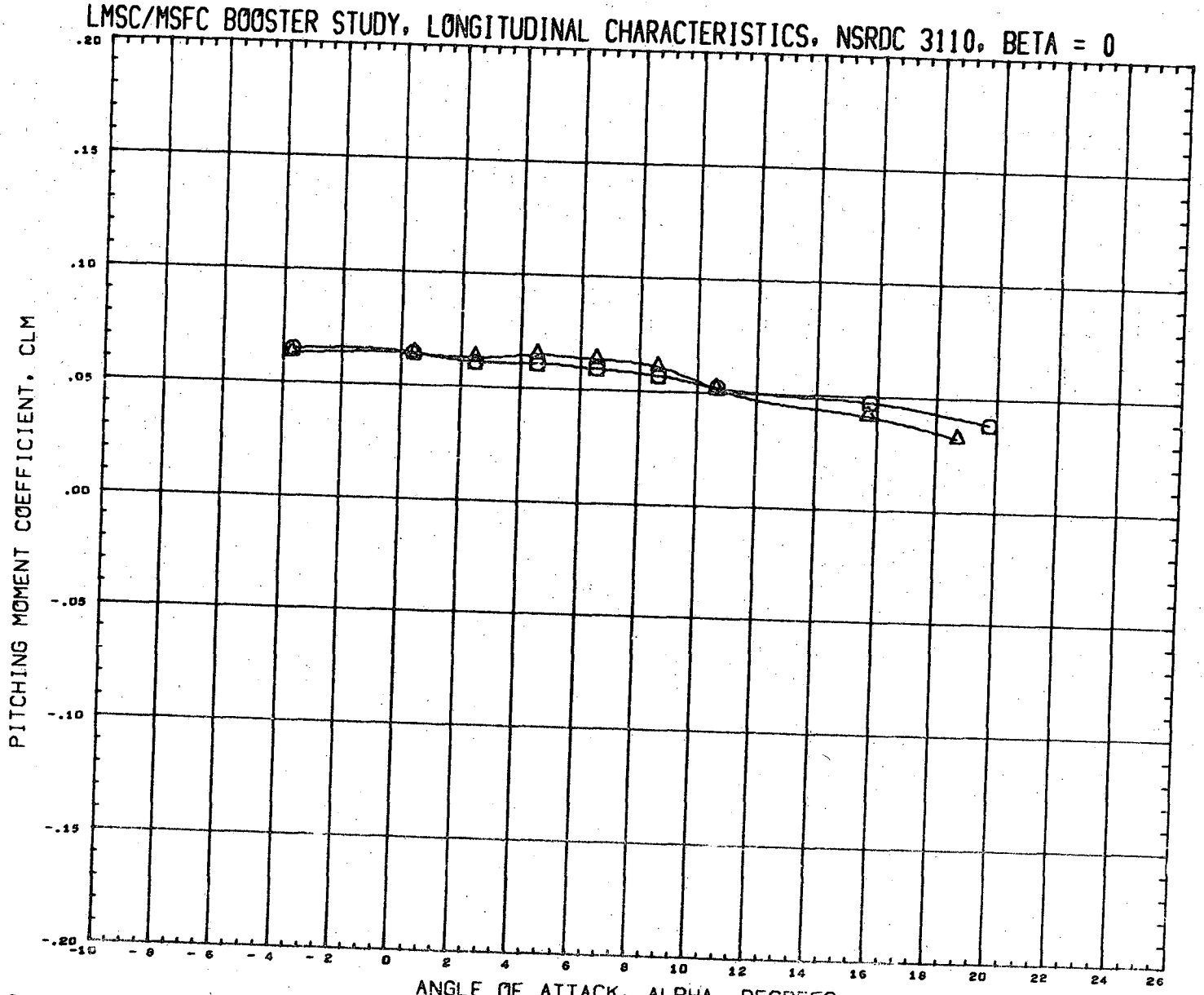
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2117)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000
(RN2181)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

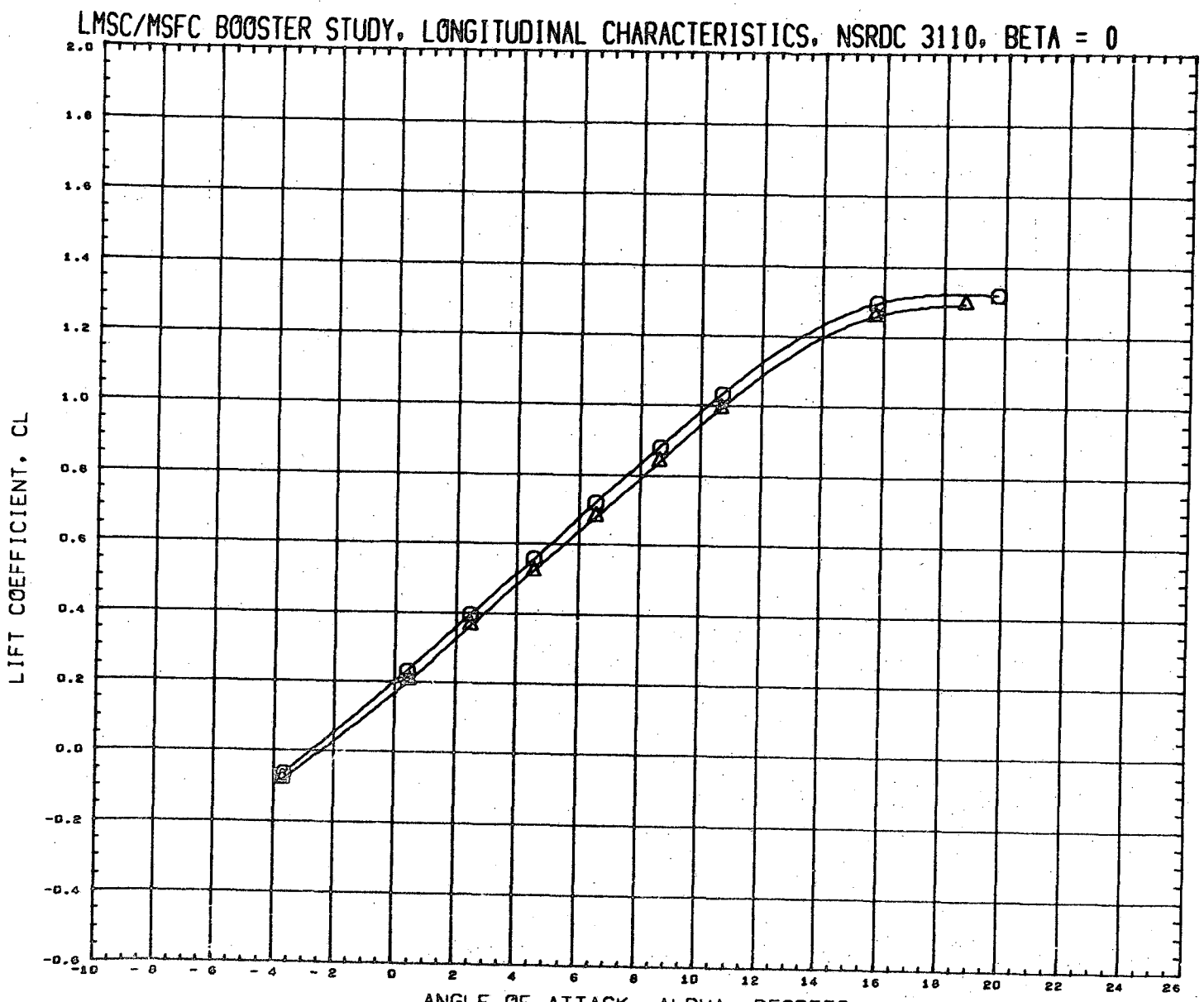
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2117)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000
(RN2181)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

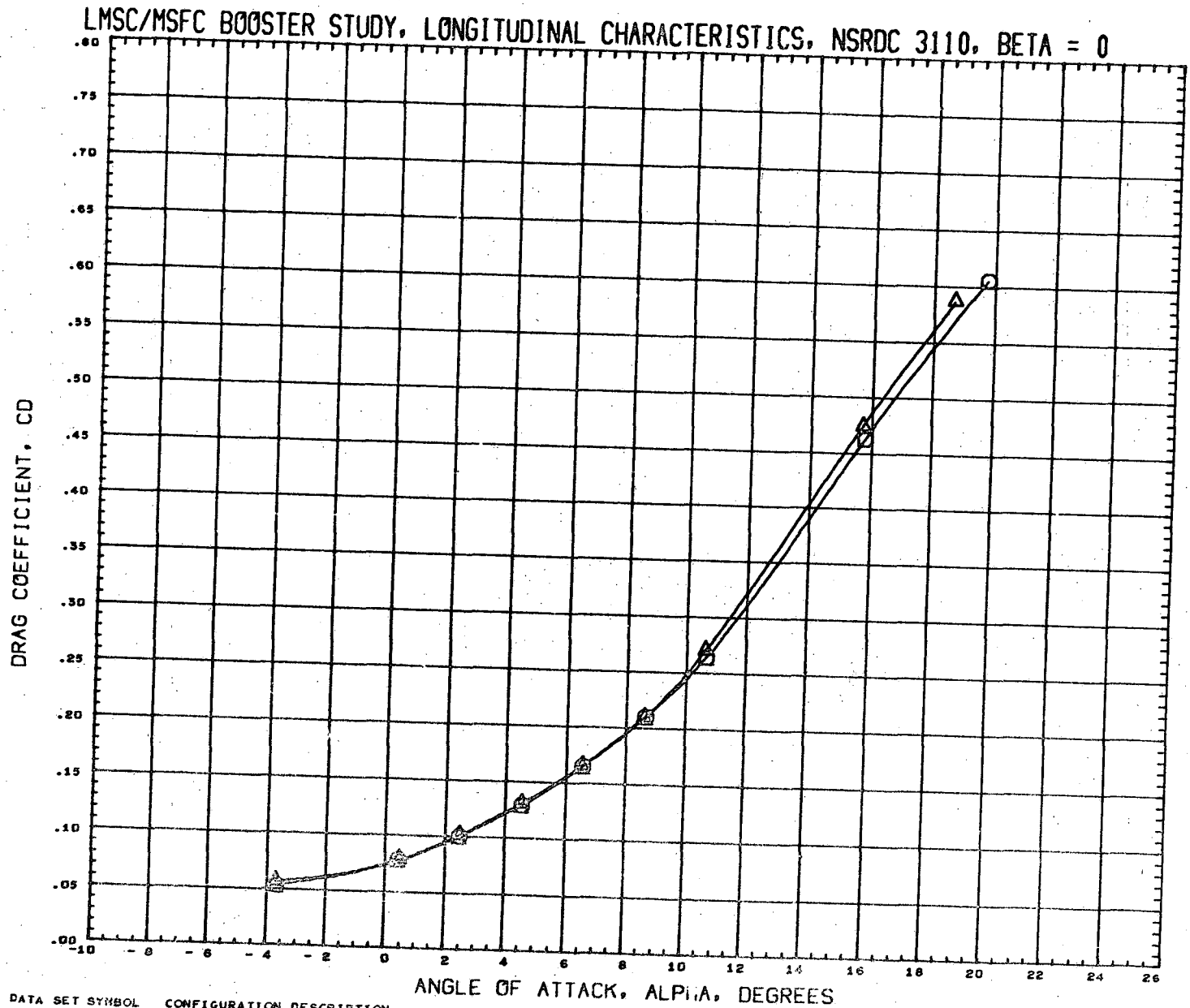
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2117)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000
(RN2181)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

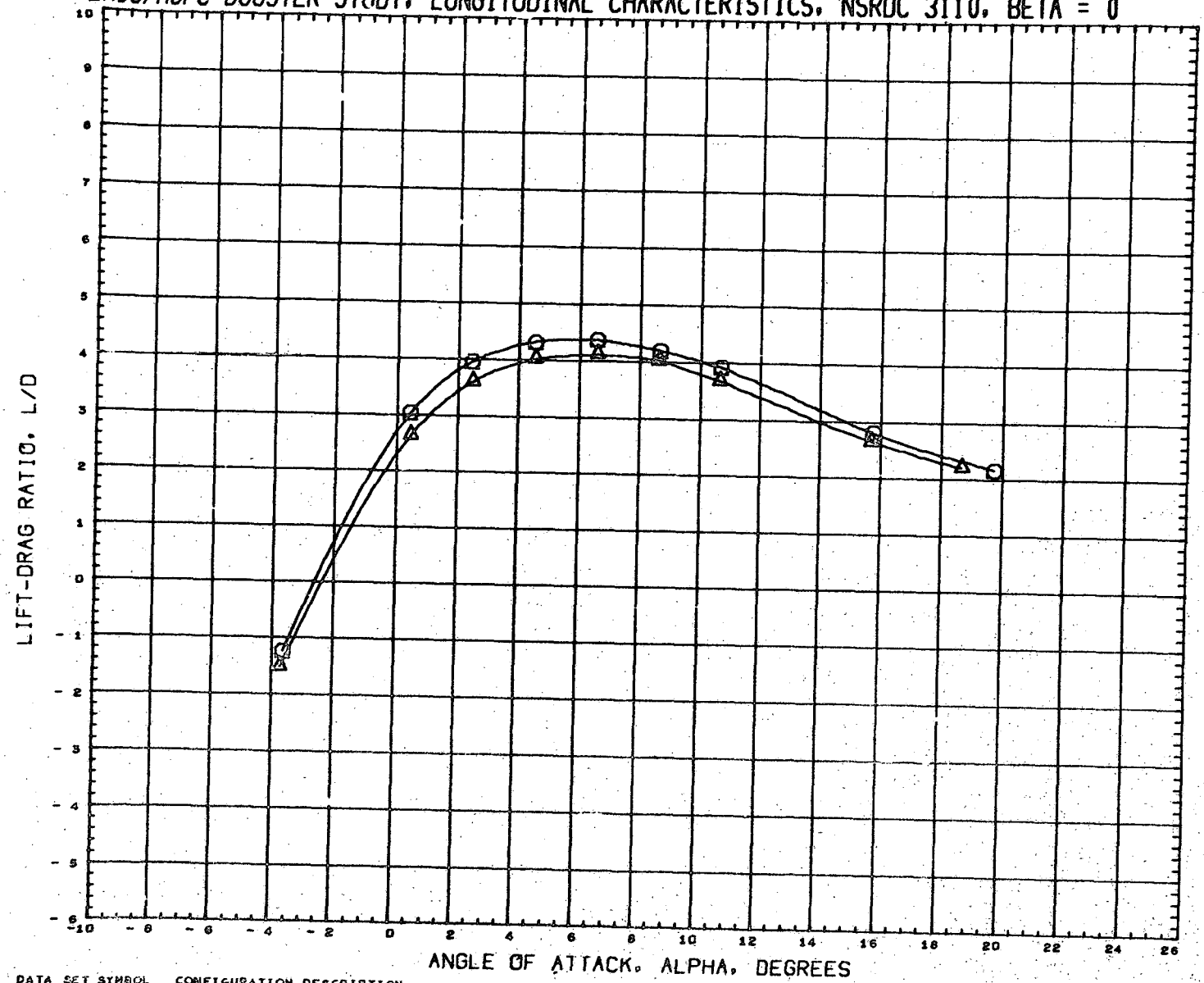


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2117)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000
(RN2181)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



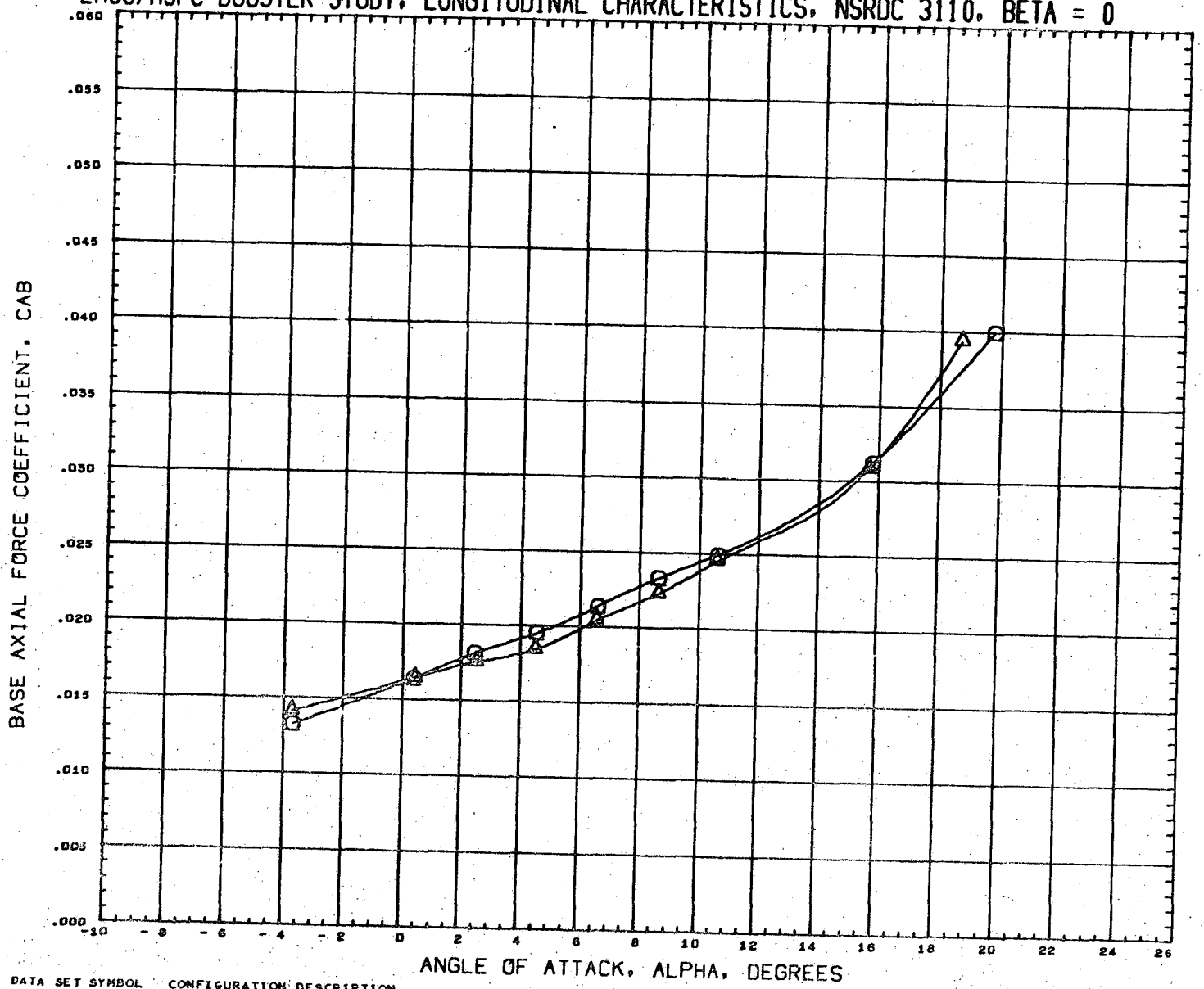
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2117)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000
(RN2181)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

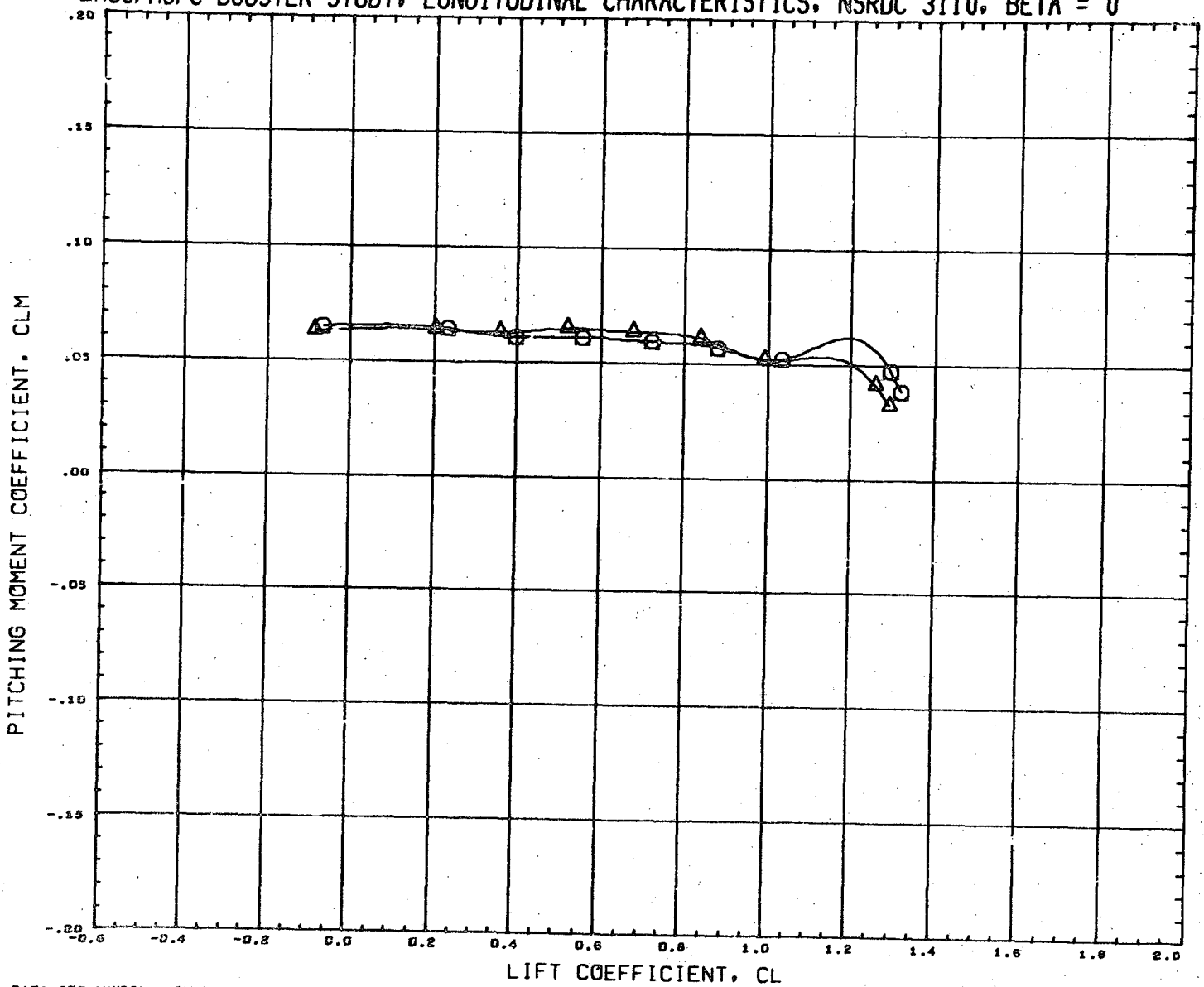


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2117)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000
(RN2181)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

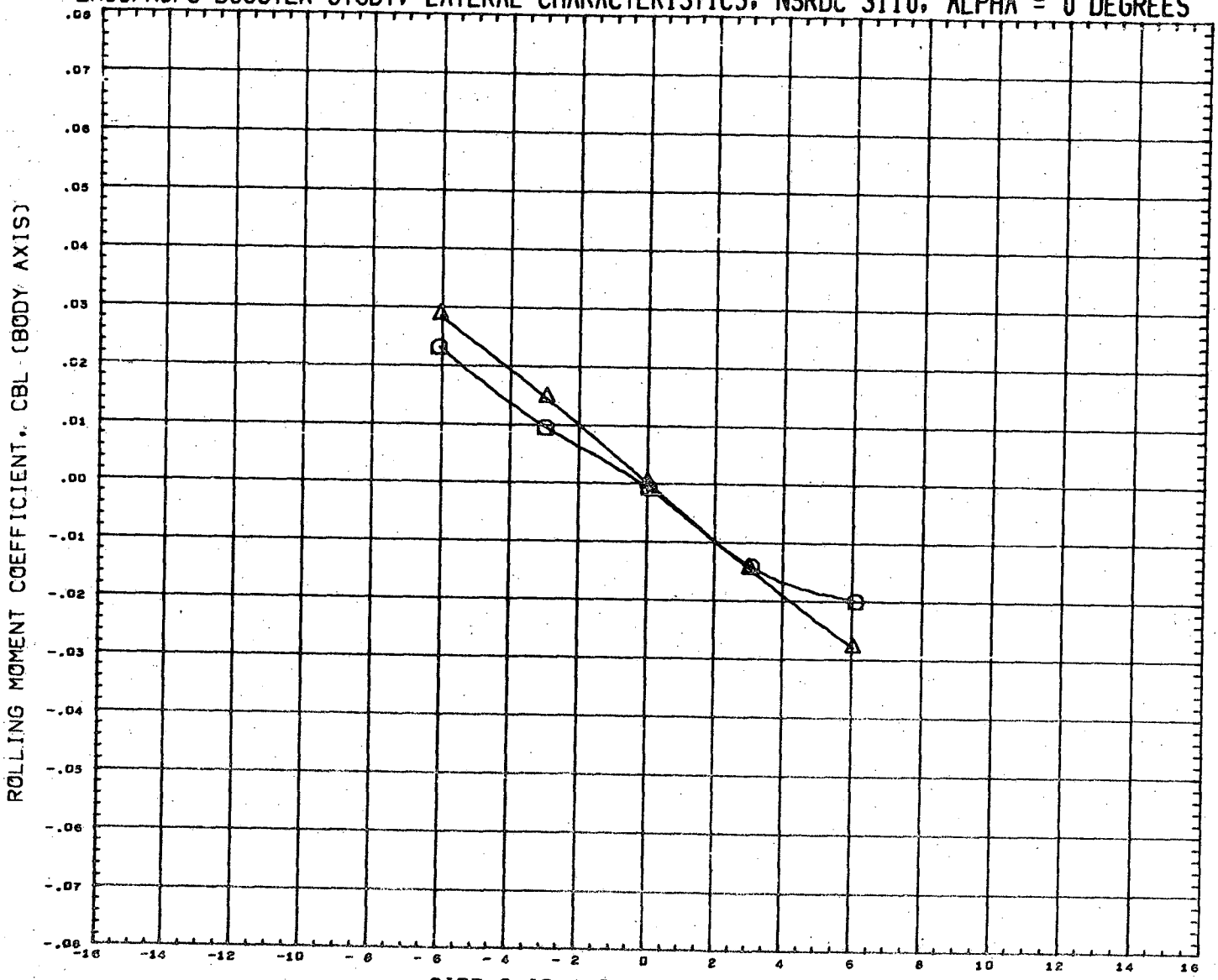


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2117)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000
(RN2181)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

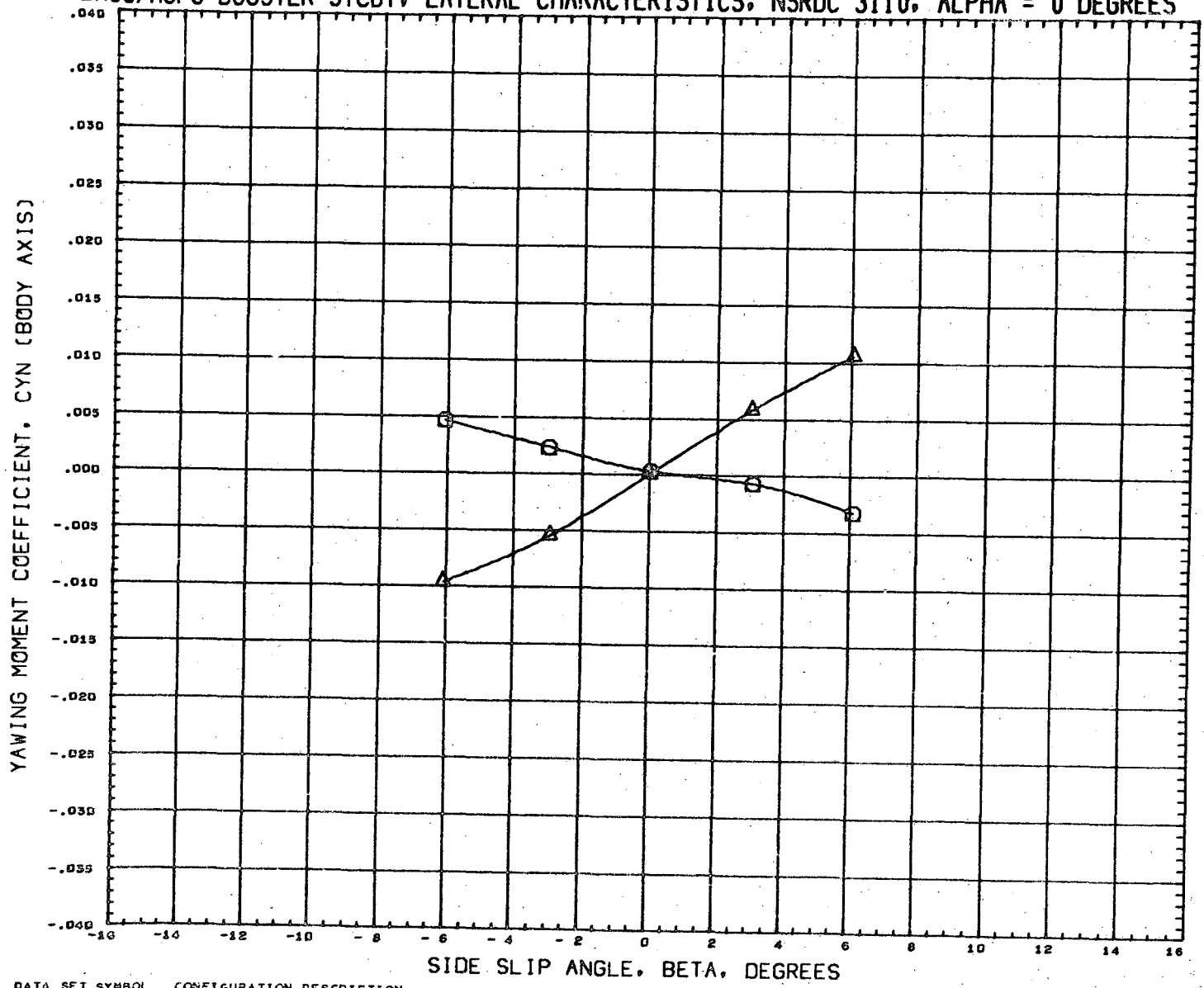


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2118)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000
(RN2182)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



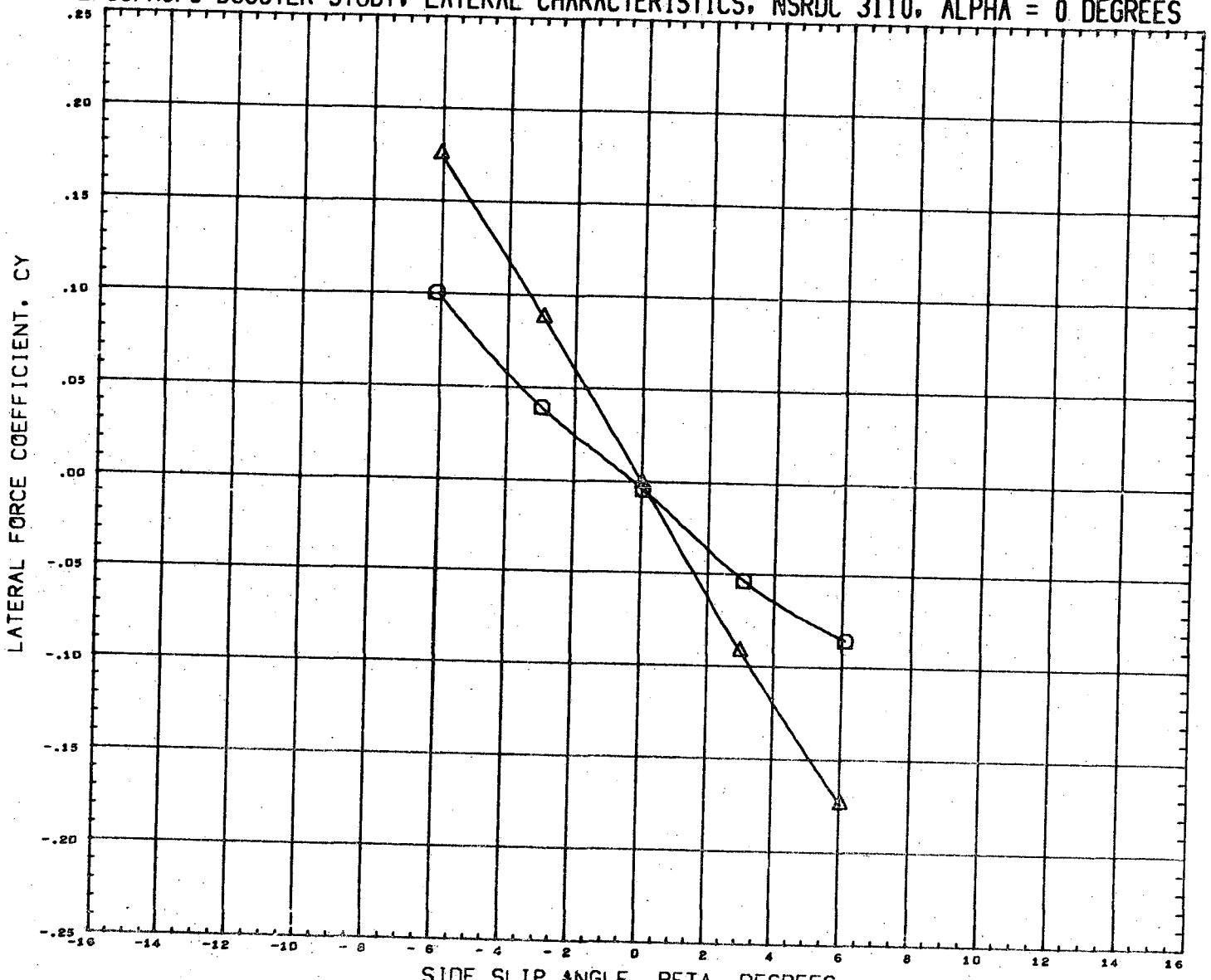
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2118)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000
(RN2182)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.360

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

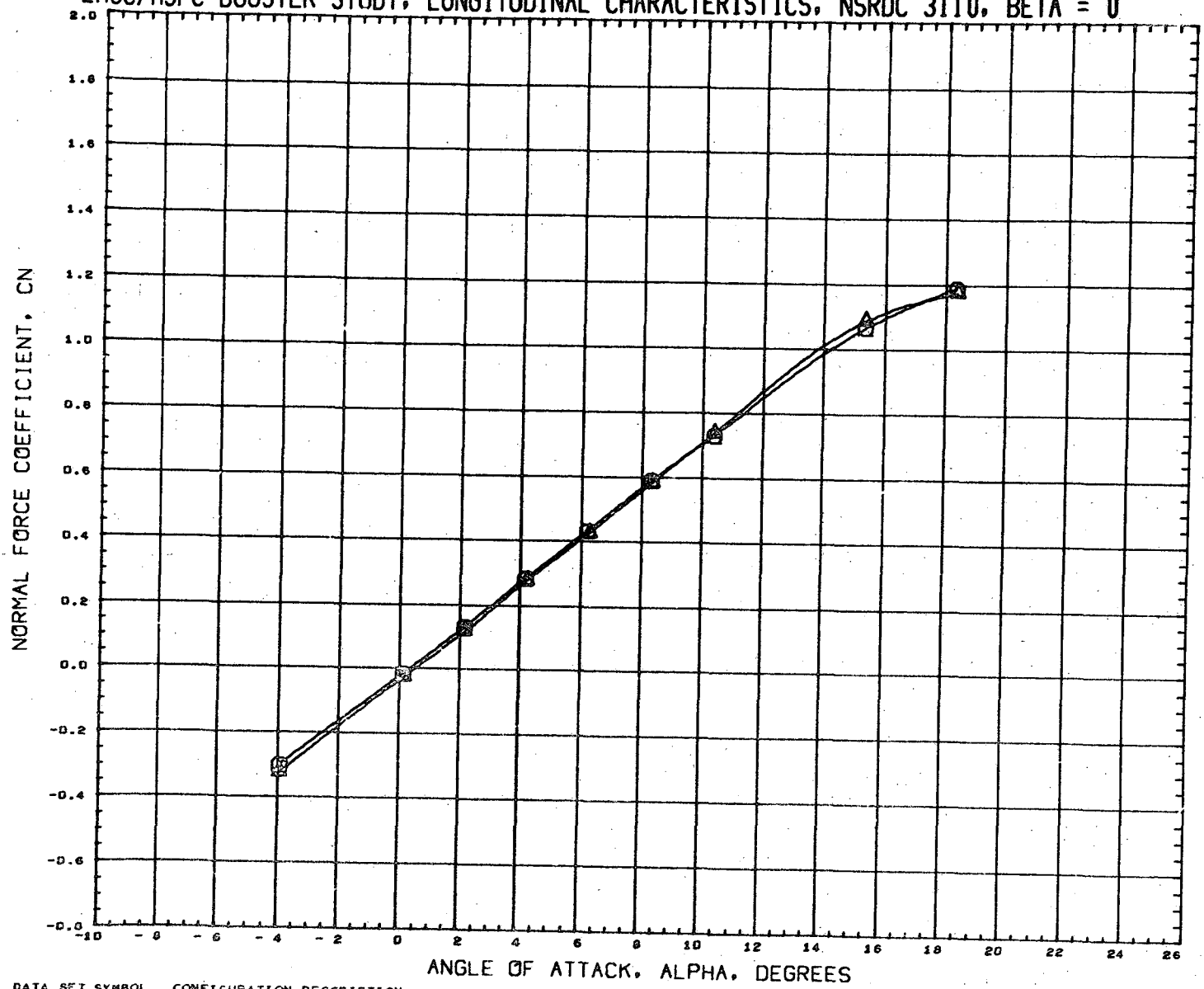


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2118)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000
(RN2182)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

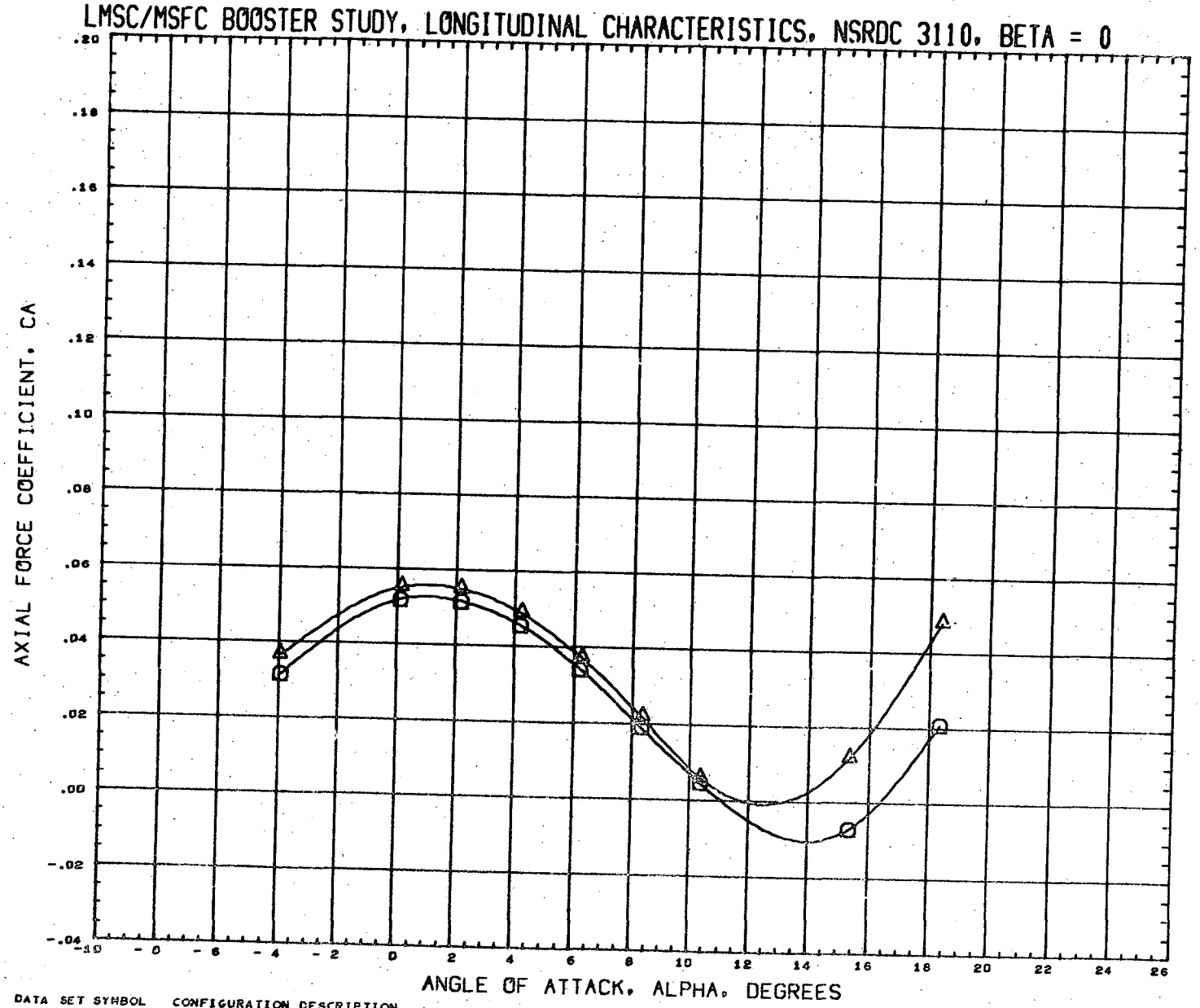
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2089)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000
(RN2153)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

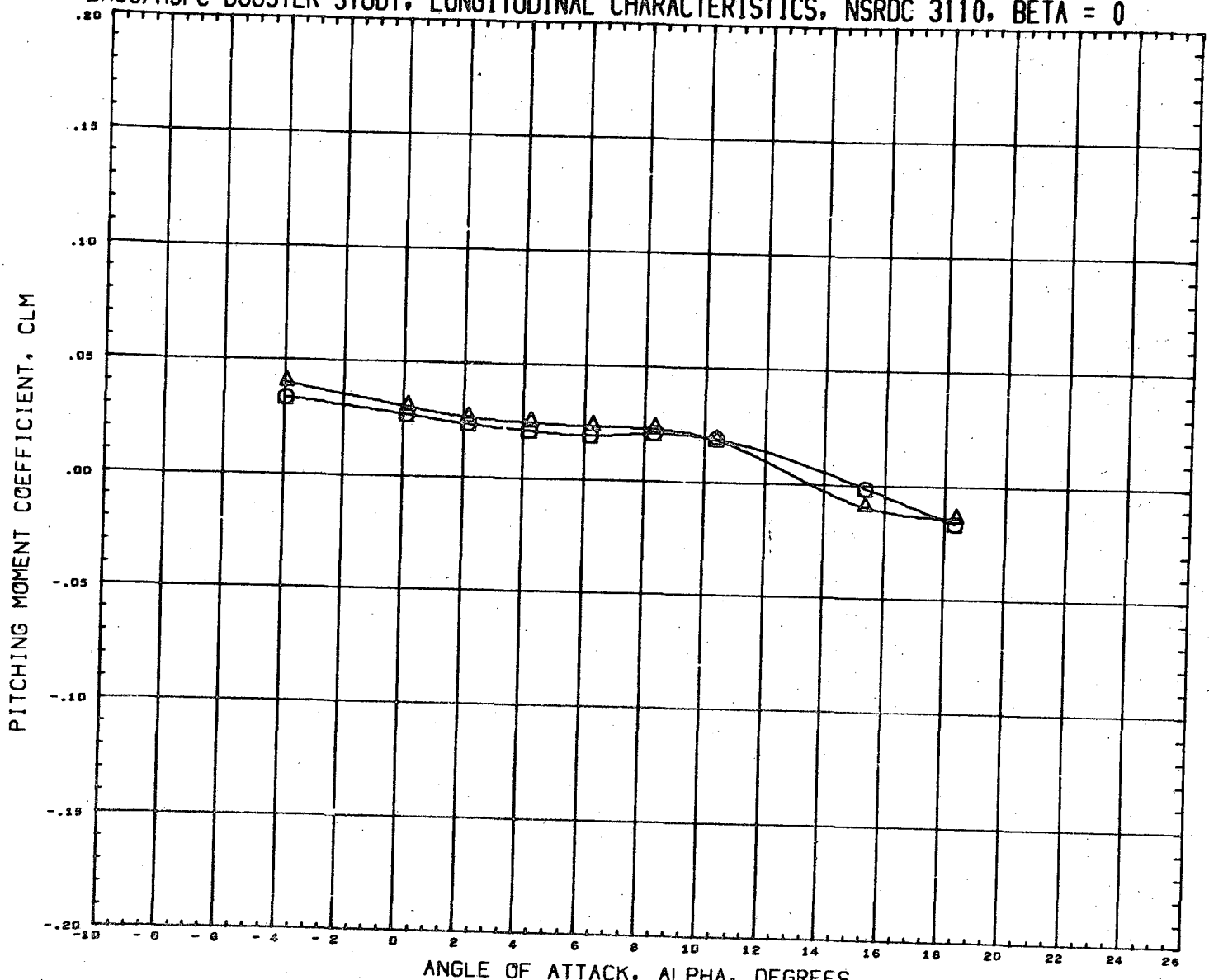


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2089)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000
(RN2153)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØOSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

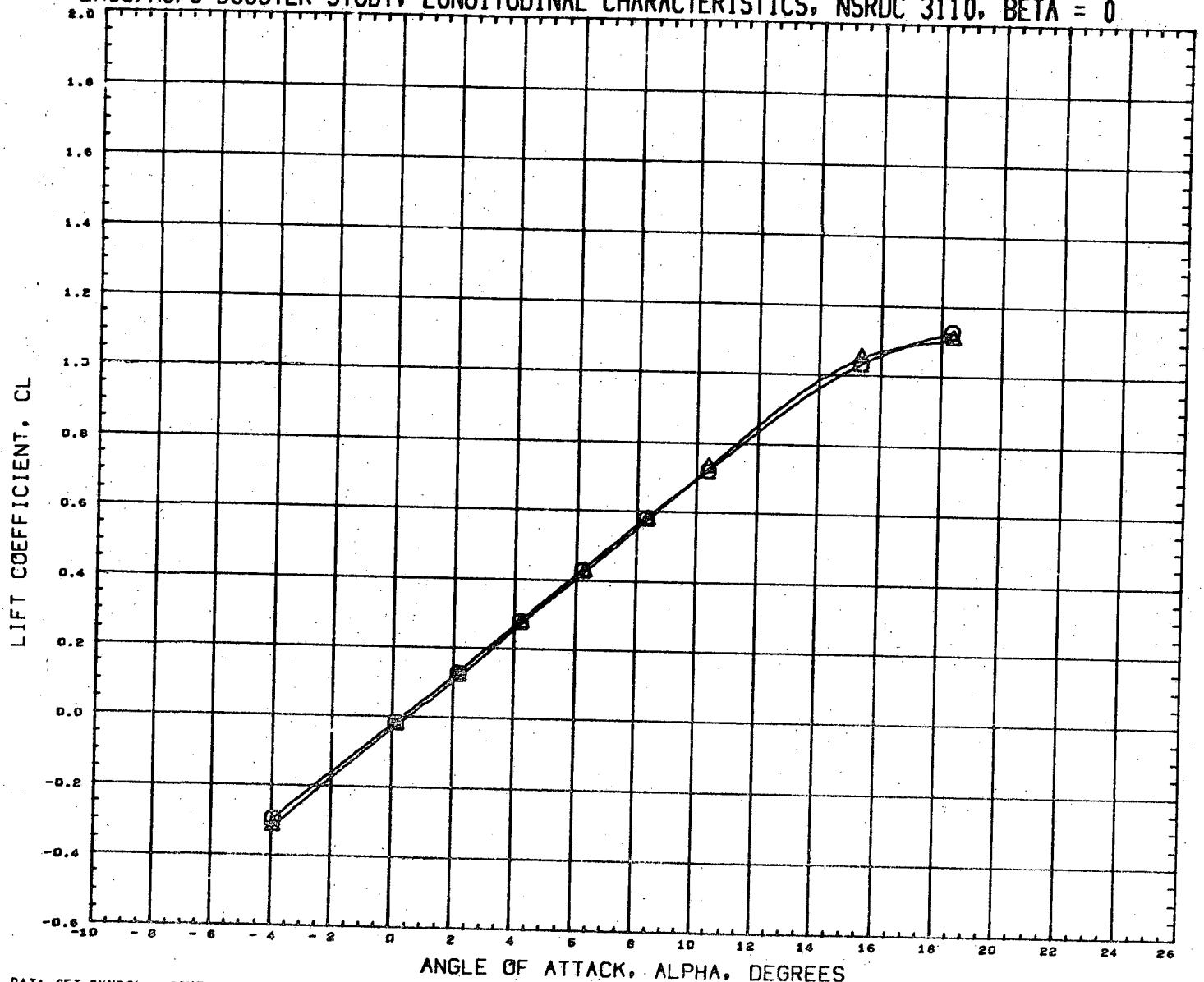


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RM2089)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000
(RM2153)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



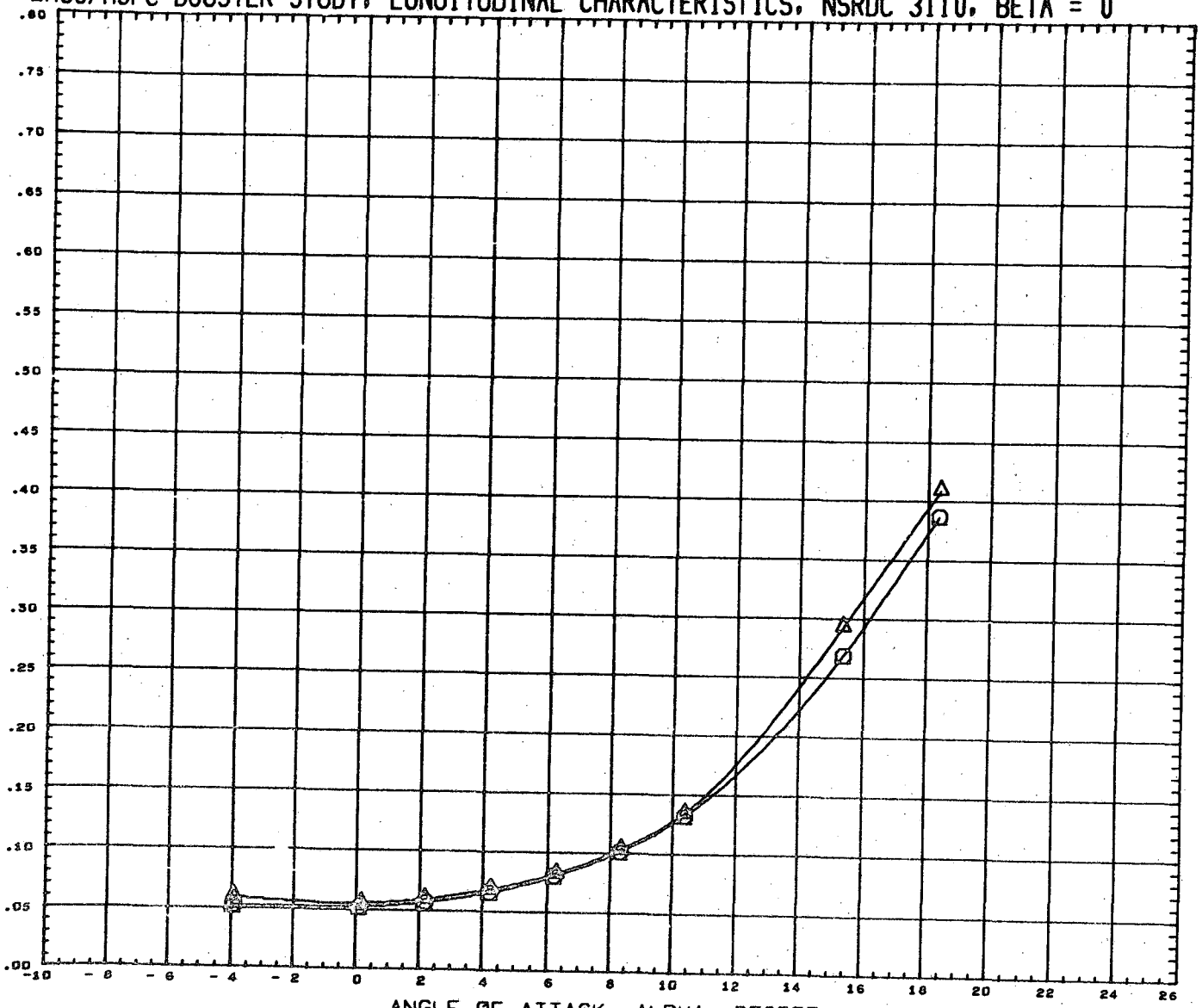
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2089)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000
(RN2153)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



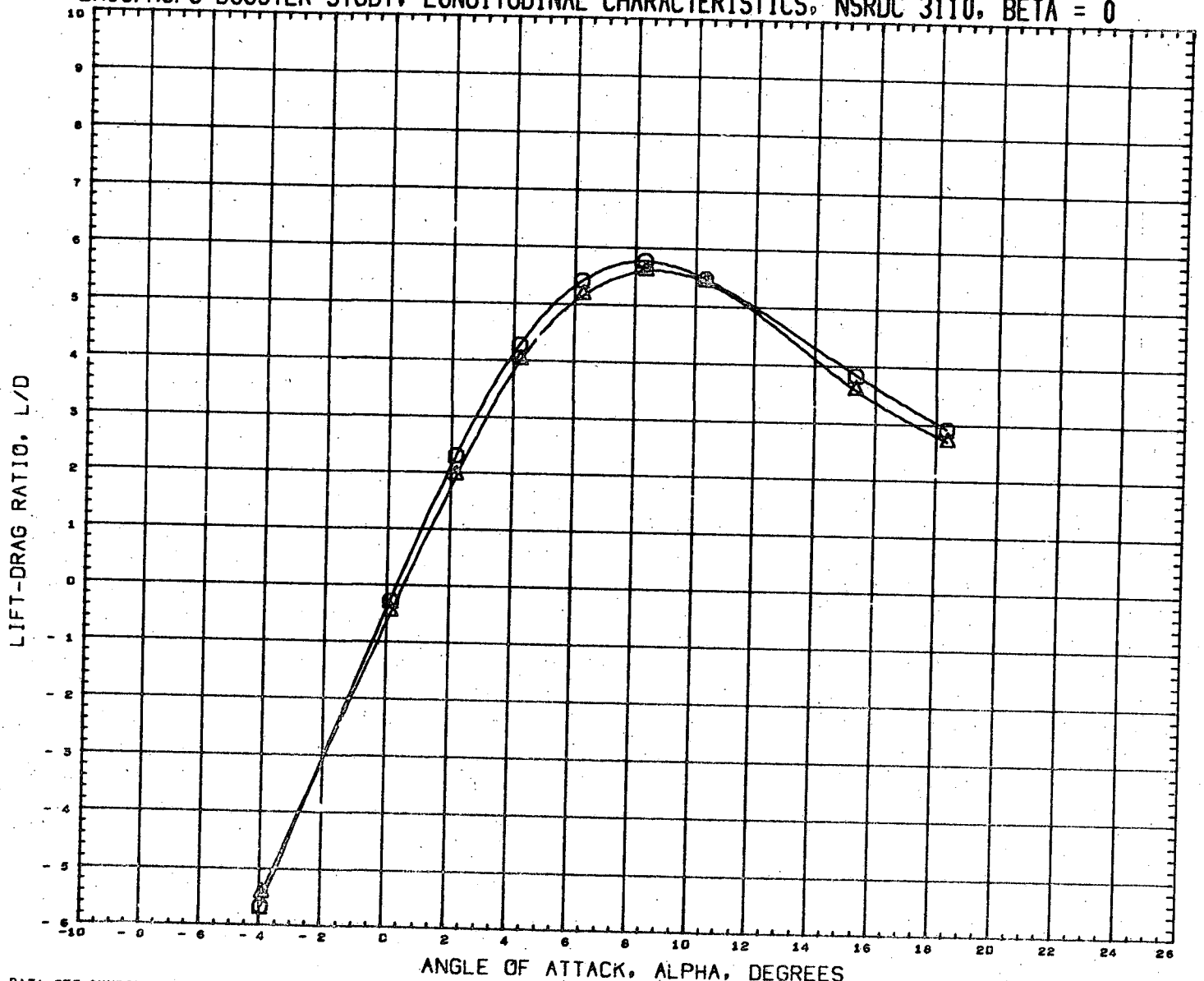
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2089)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2153)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	2.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.360

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



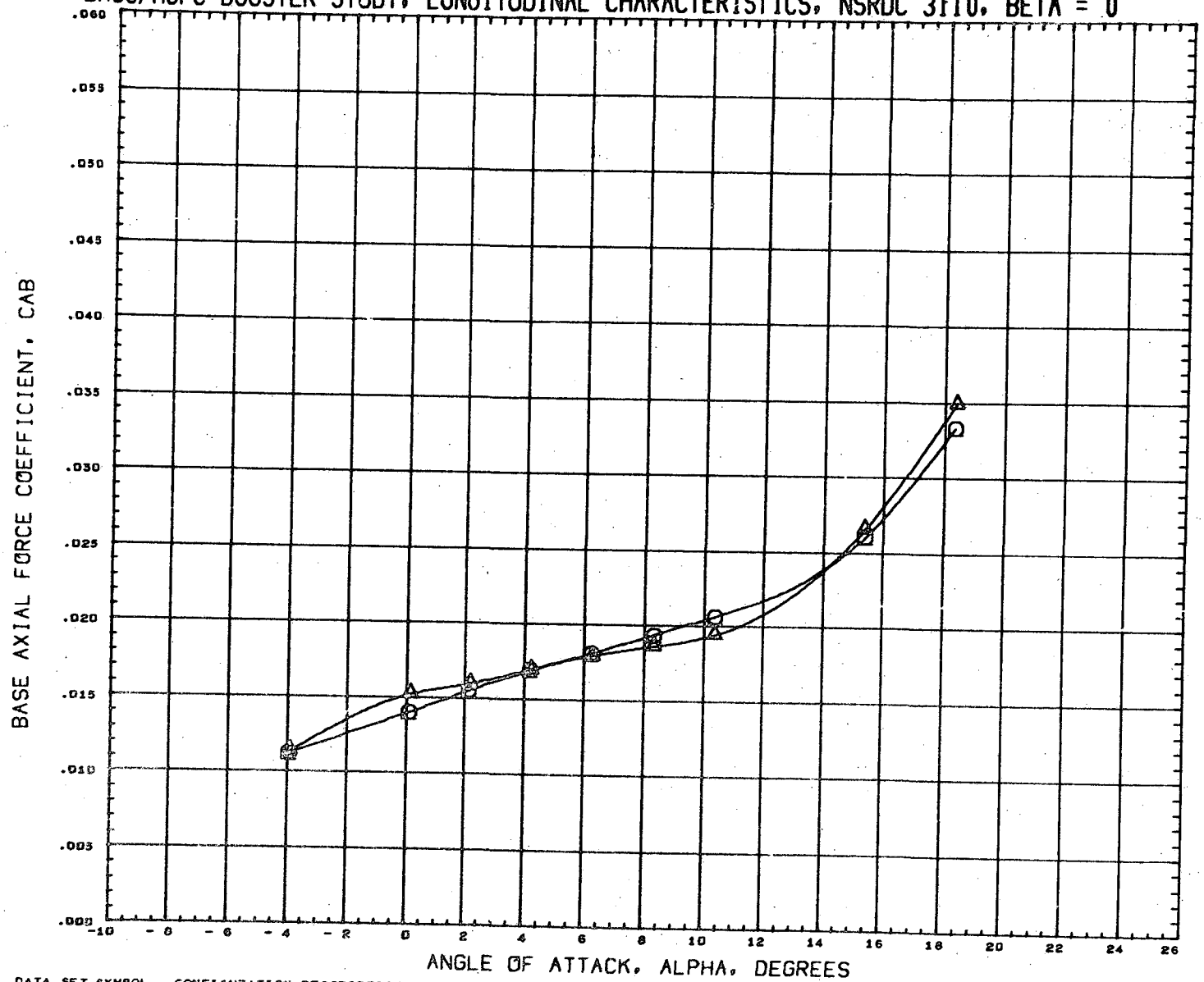
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2039)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2153)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	2.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

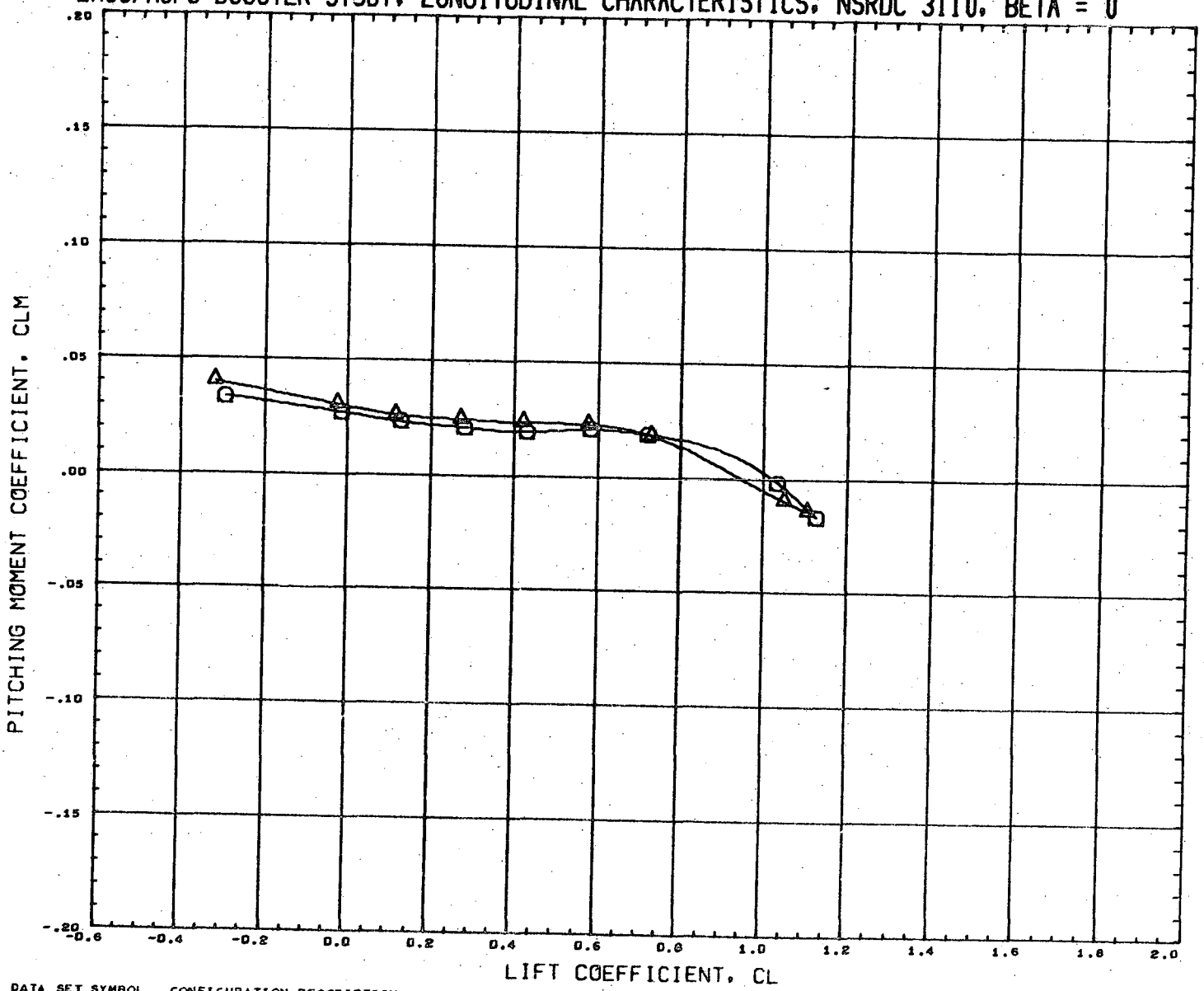


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2089)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000
(RN2153)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.300

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

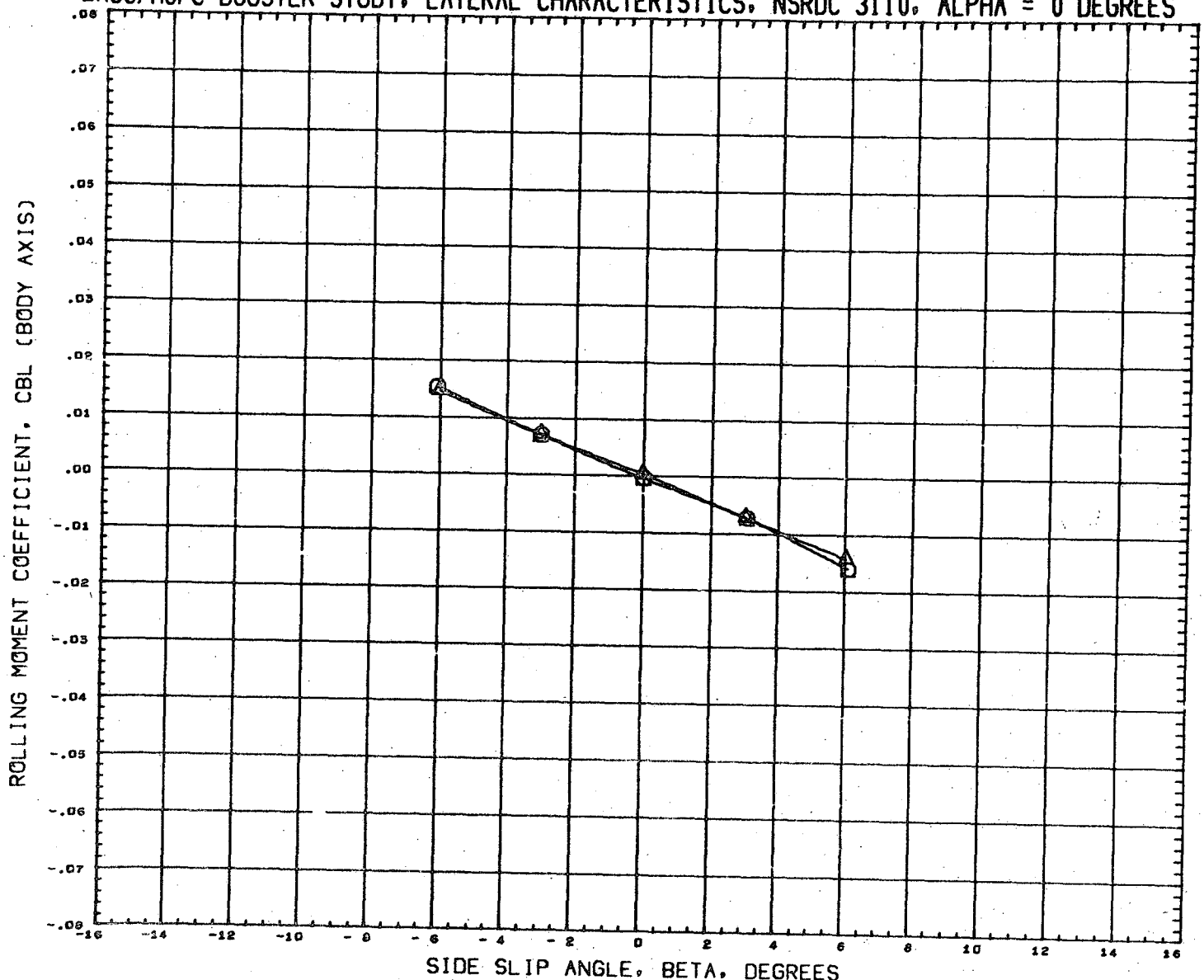


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2089)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000
(RN2153)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

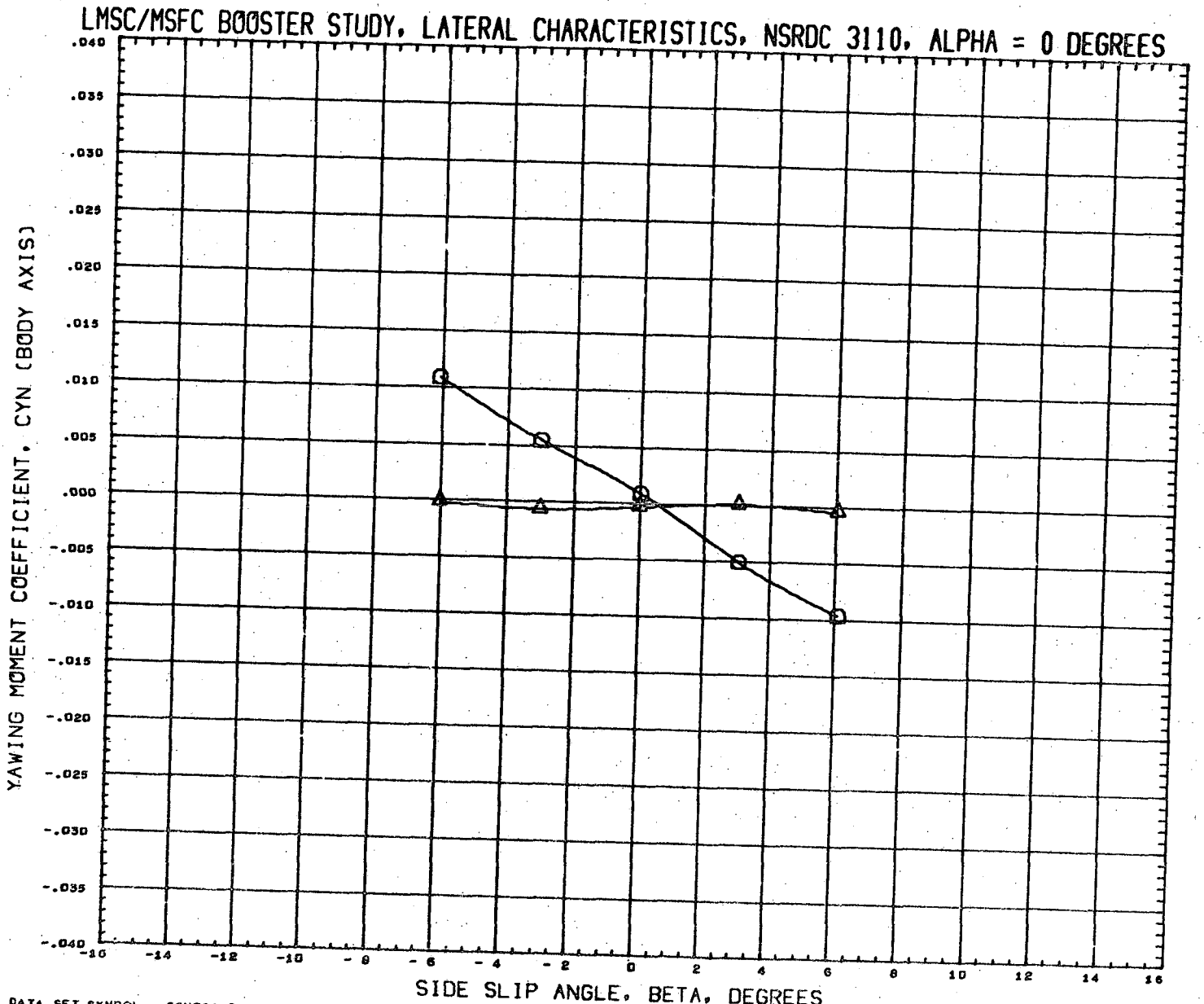
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2090)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000
(RN2154)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL — CONFIGURATION DESCRIPTION

(RN2090) — NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

(RN2154) — NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

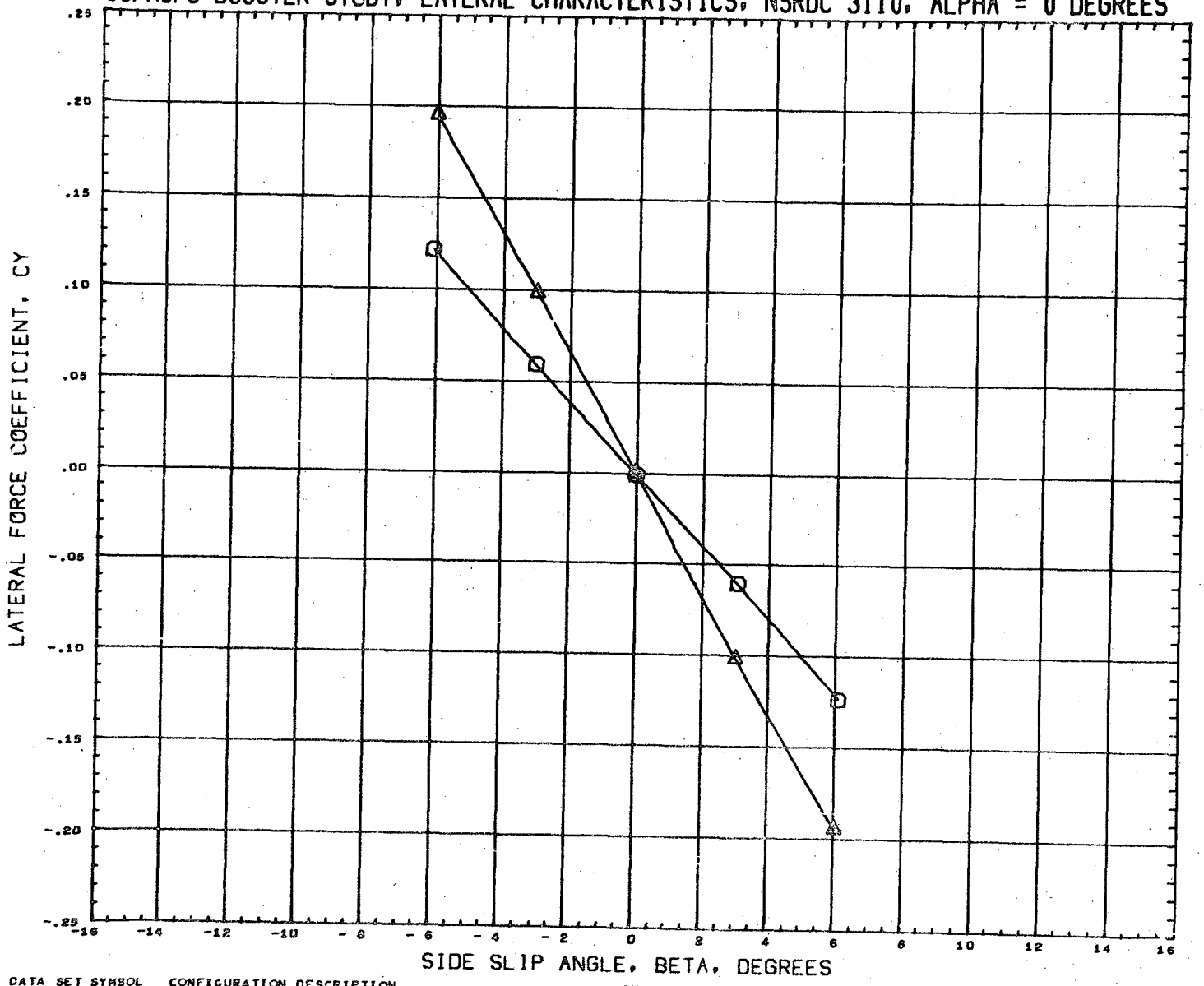
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	2.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

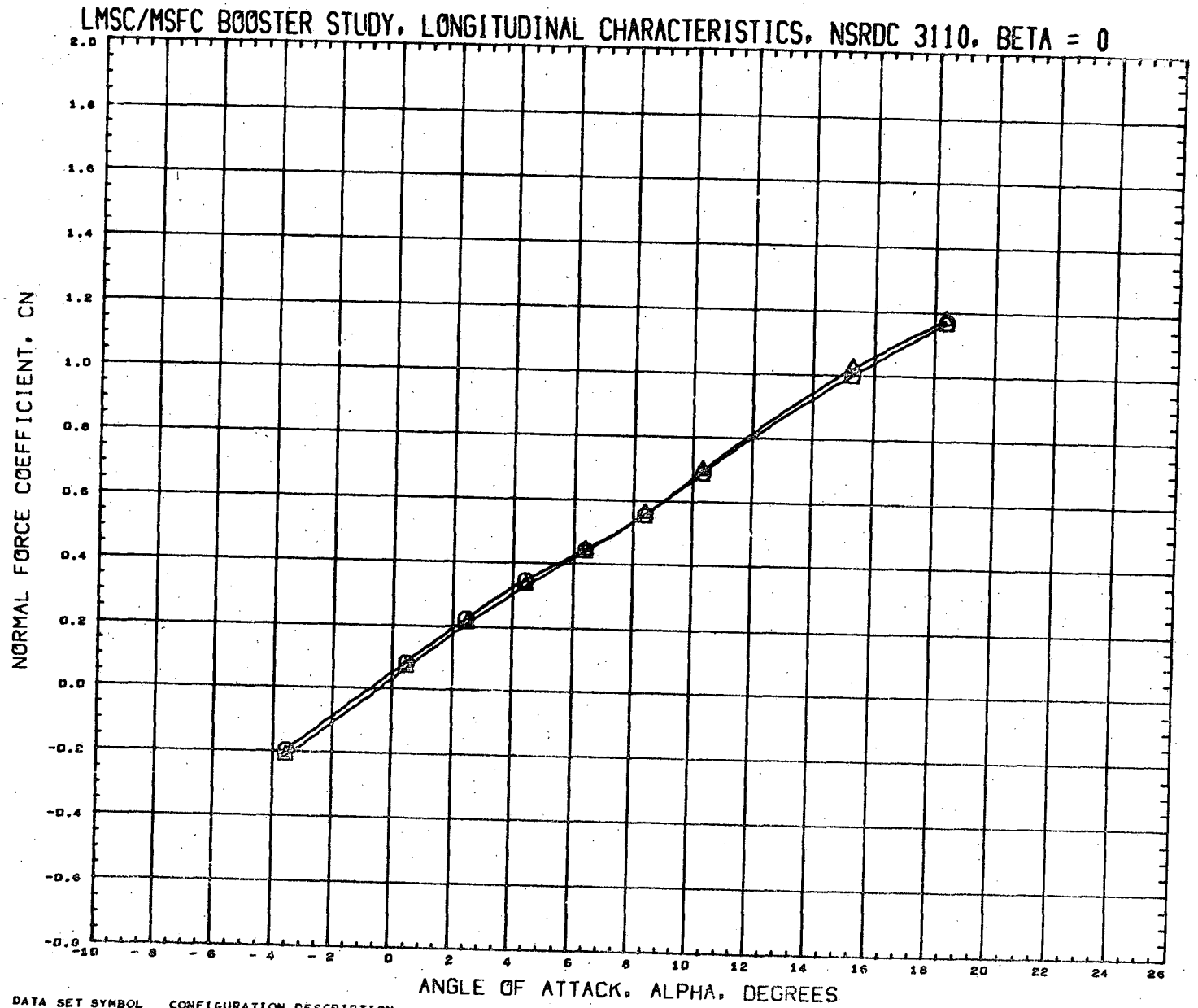
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2090)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000
(RN2154)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

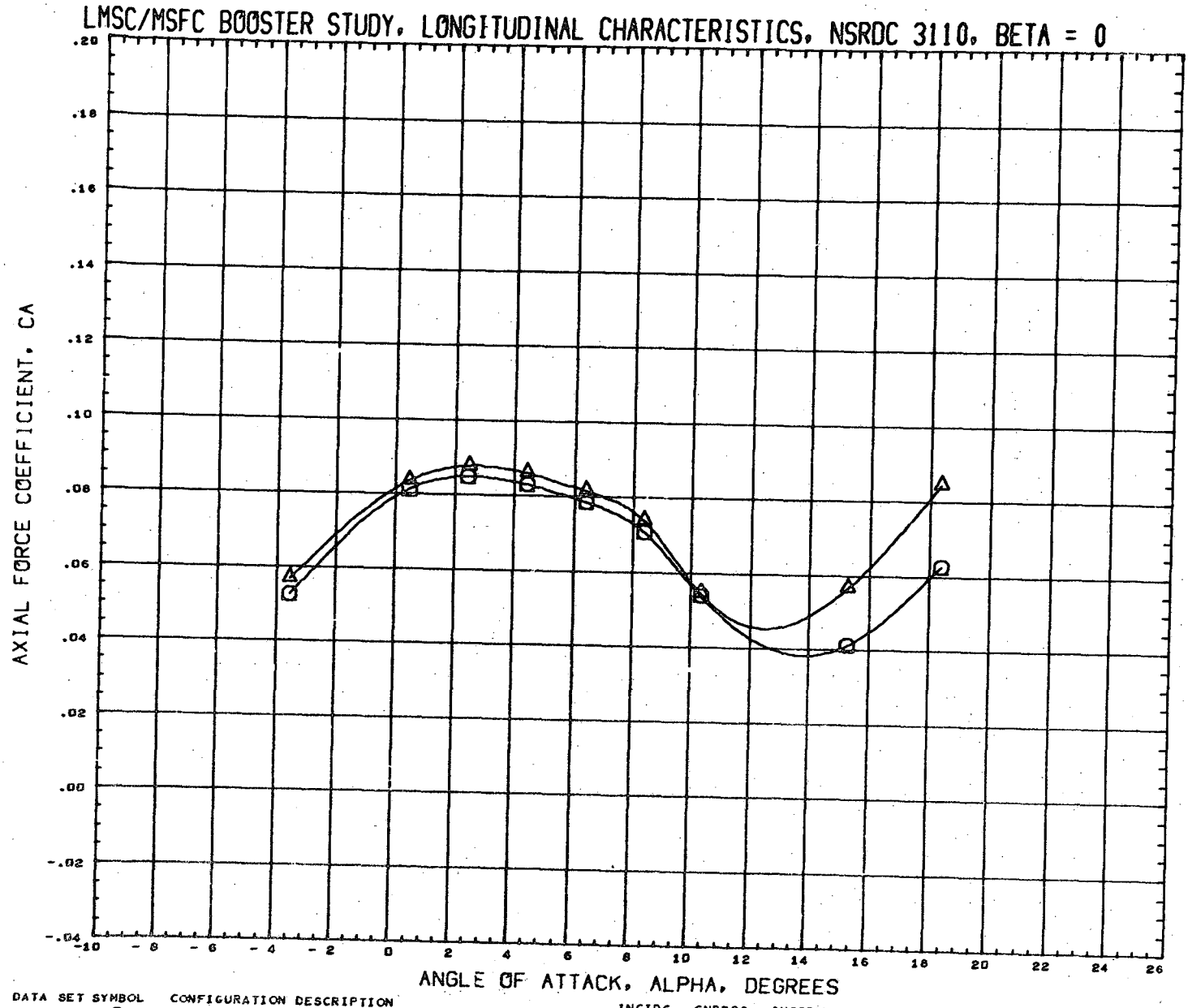


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2093)	○	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2157)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

	INCIDC	CNDPOS	INCIDW	WNGPOS
	15.000	2.000	0.000	2.000
	15.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381



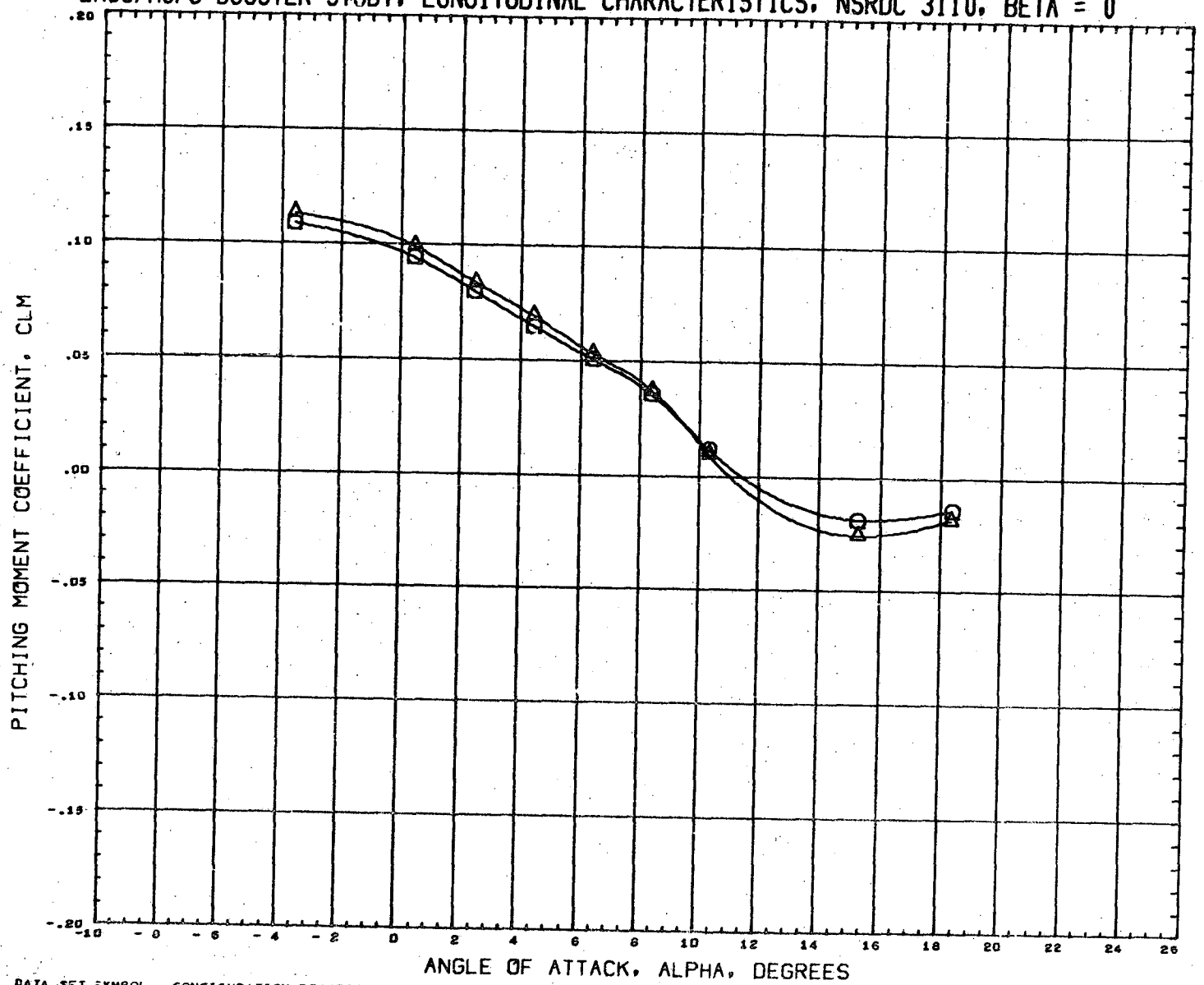
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2093)	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000
(RN2157)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2093)		NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000
(RN2157)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

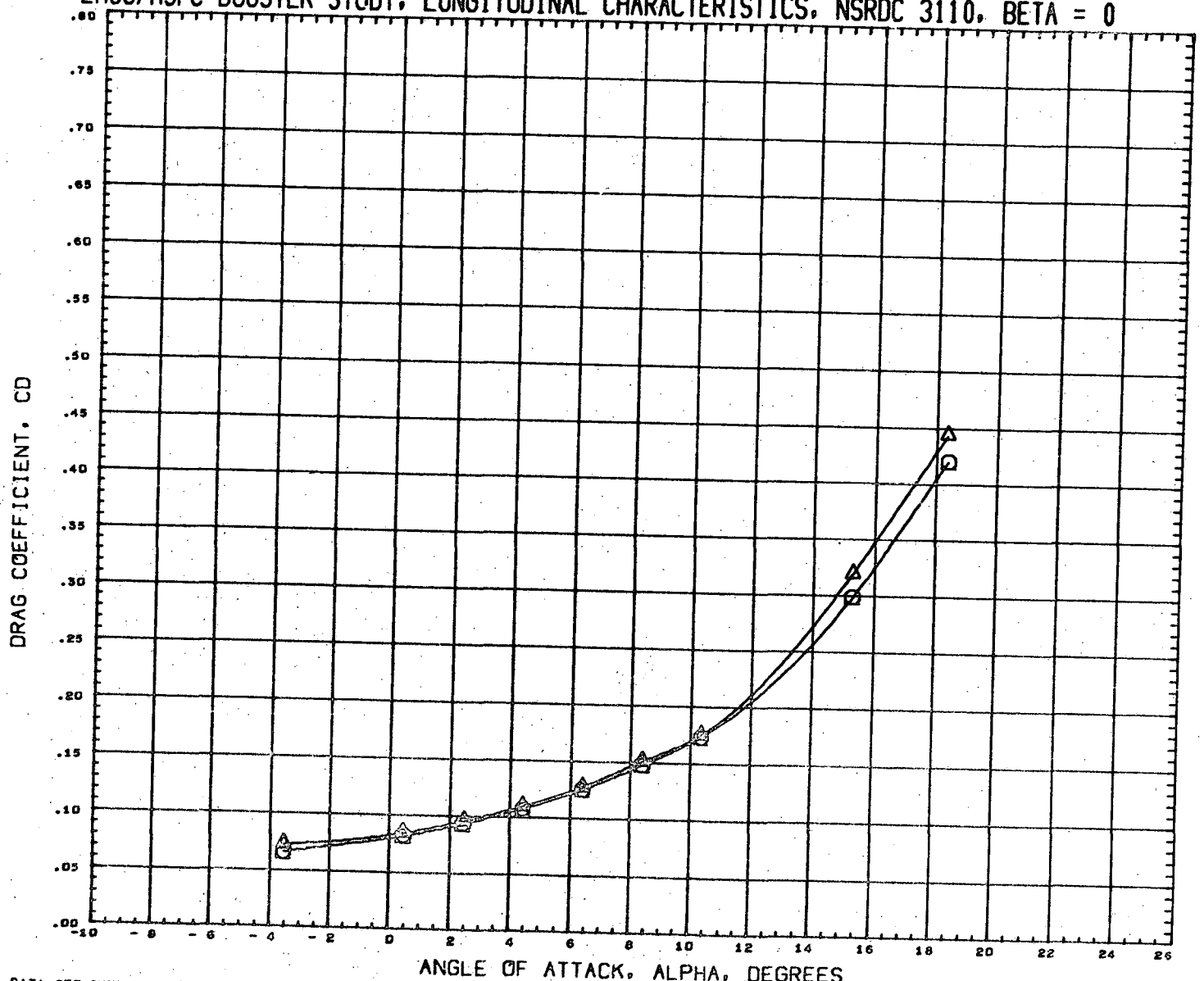
LMSC/MSFC BØØSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2093)	○	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000
(RN2157)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØOSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

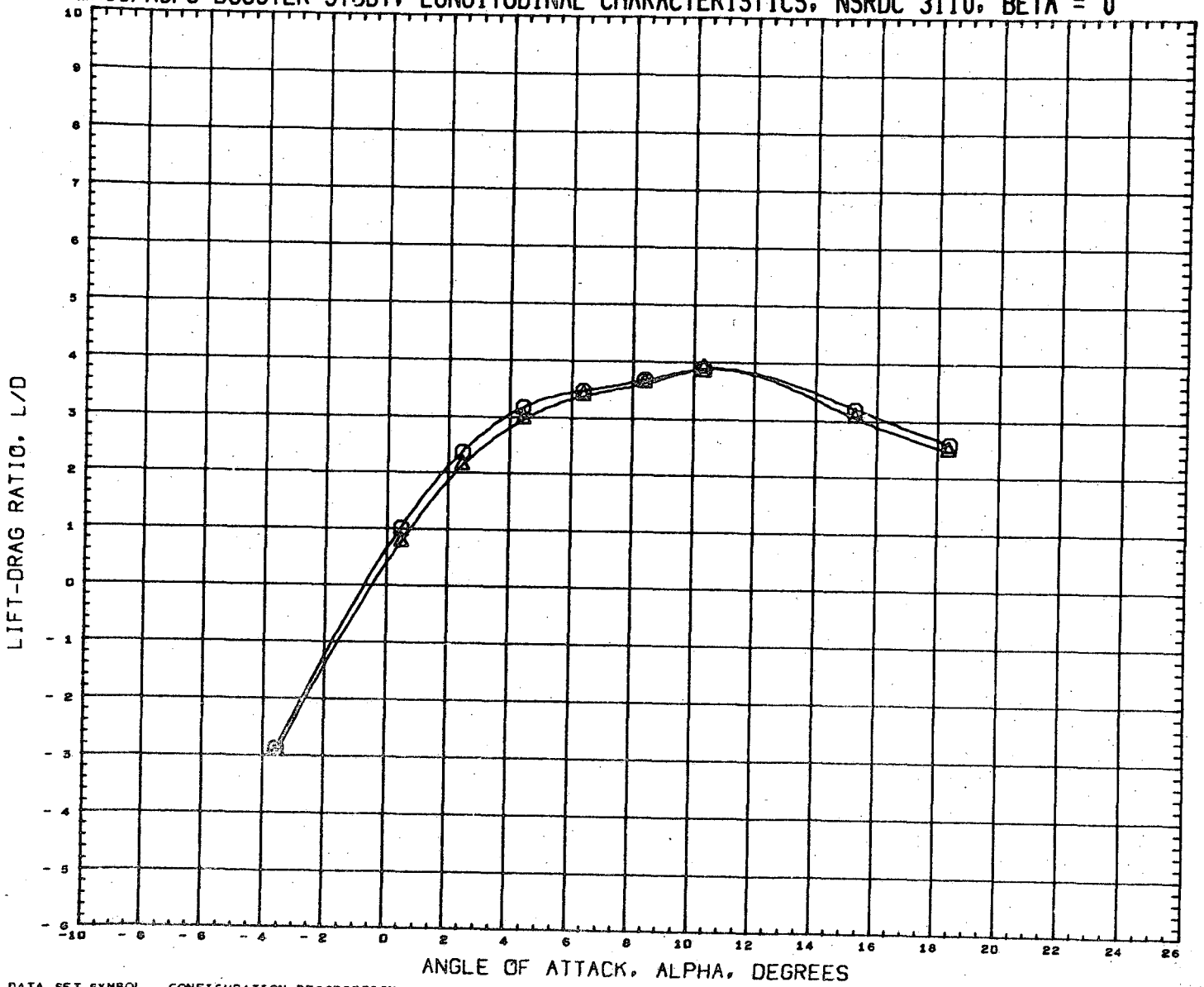


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2093)	○	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000
(RN2157)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

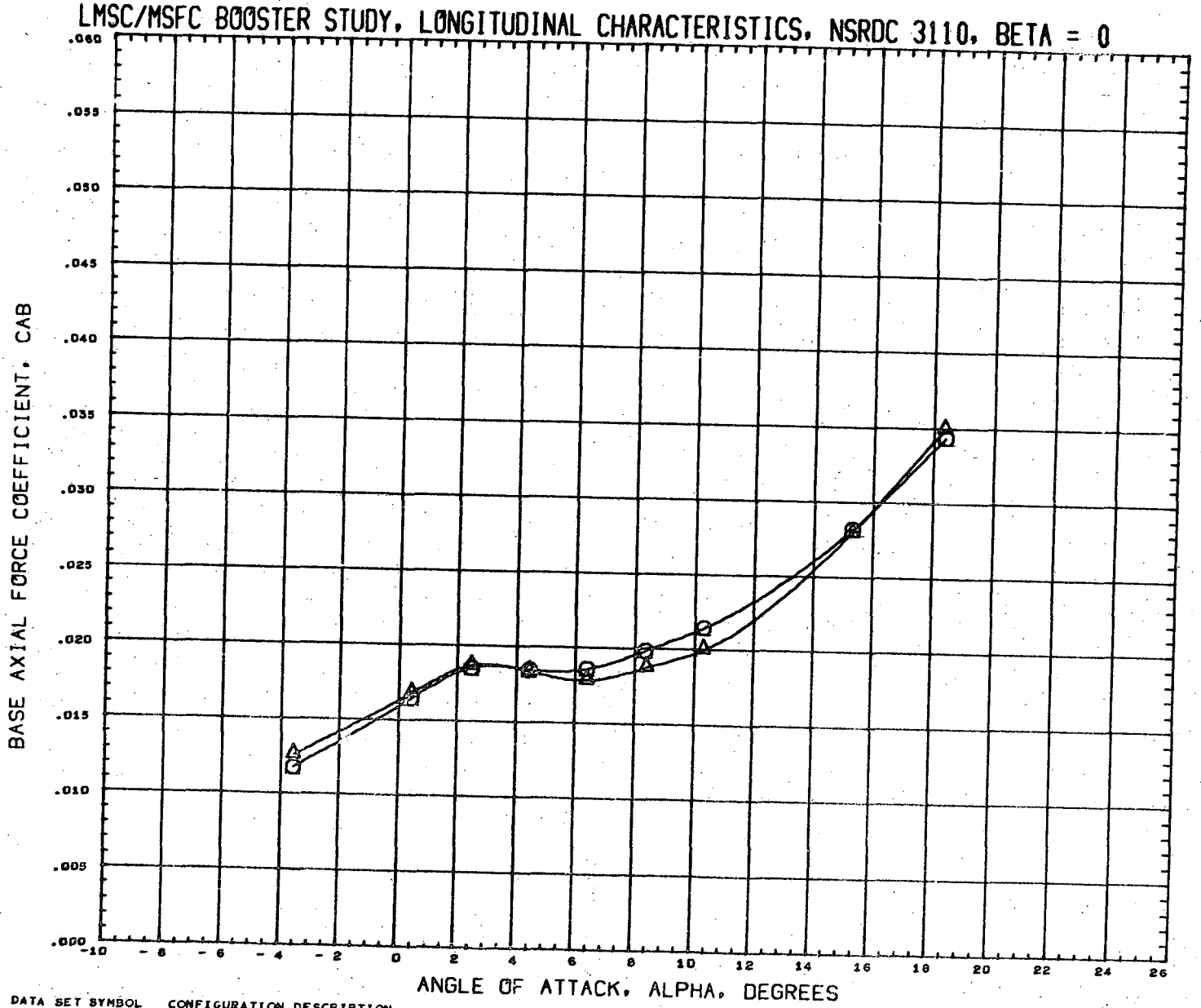
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2093)	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000
(RN2157)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



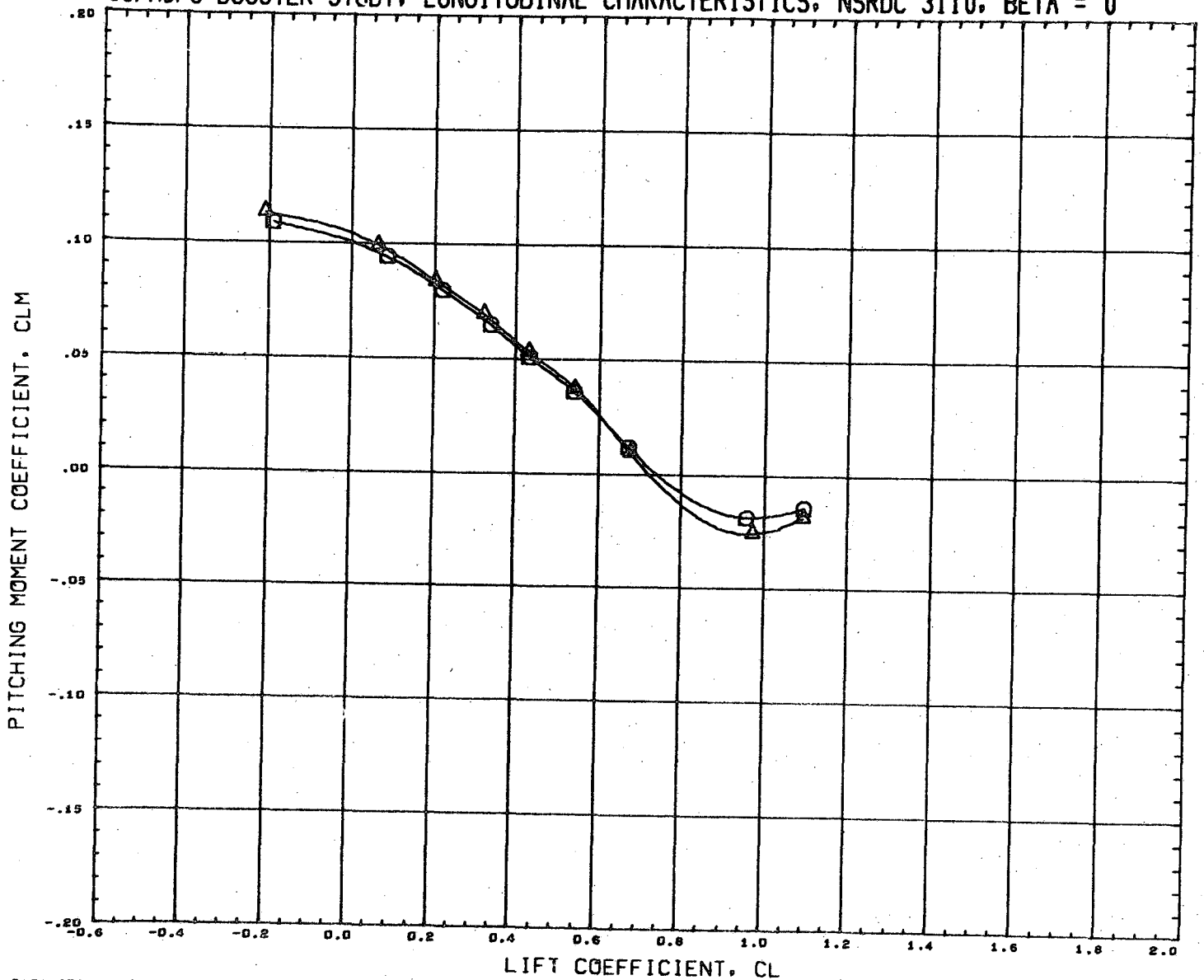
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2093)	○	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2157)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	2.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

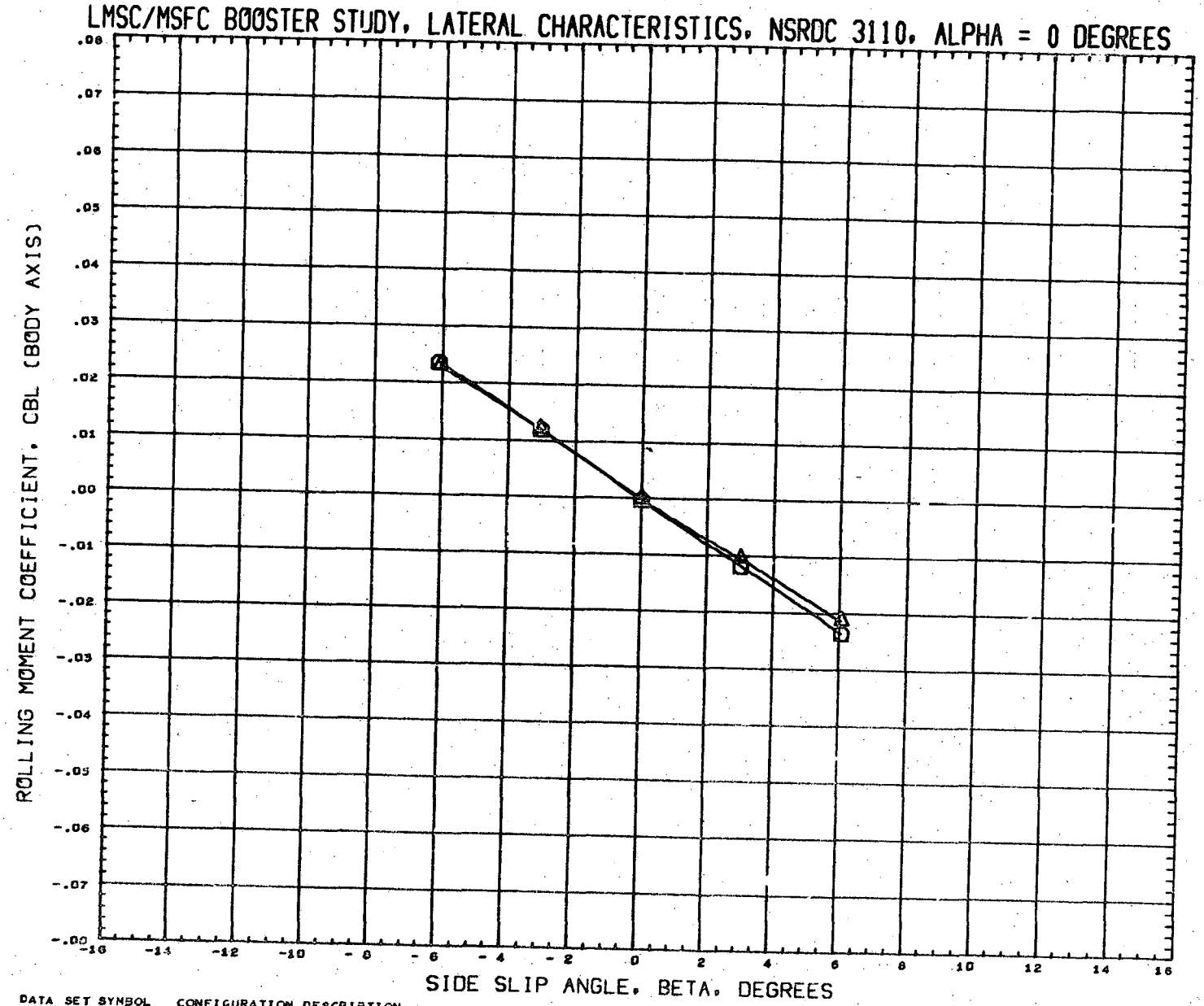


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2093)		NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000
(RN2157)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

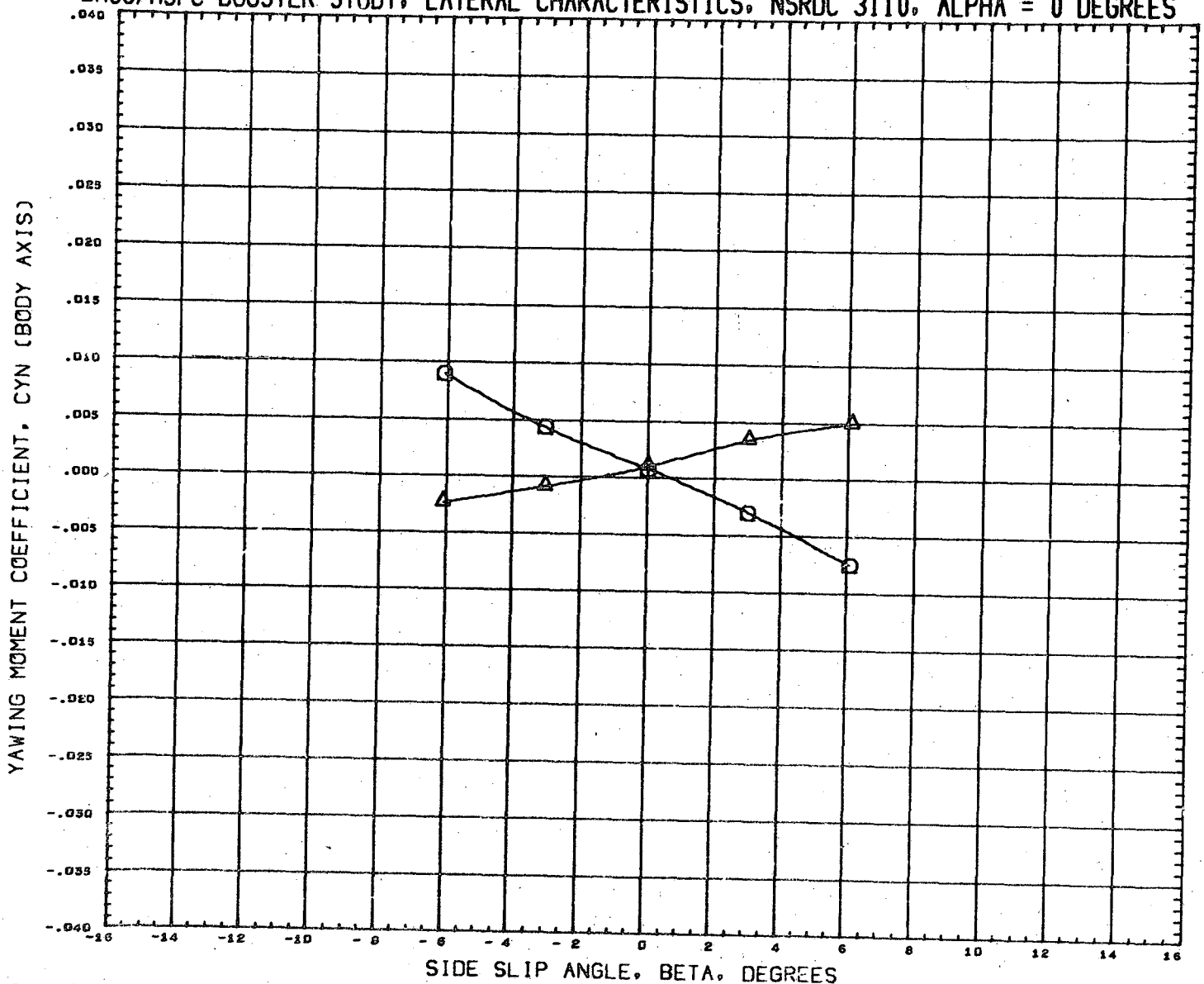


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2094)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000
(RN2158)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



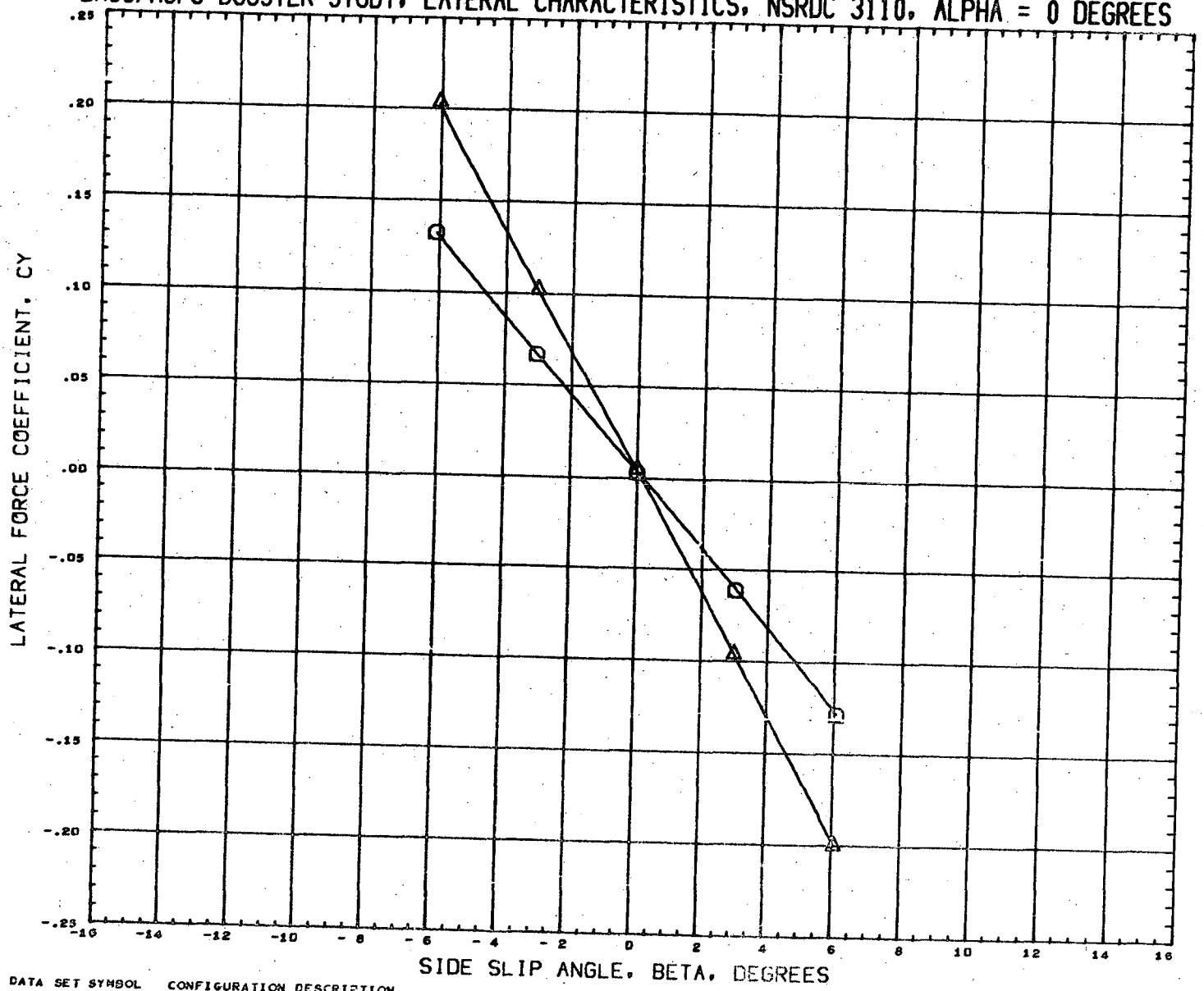
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2094)	Ω	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000
(RN2158)	Δ	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

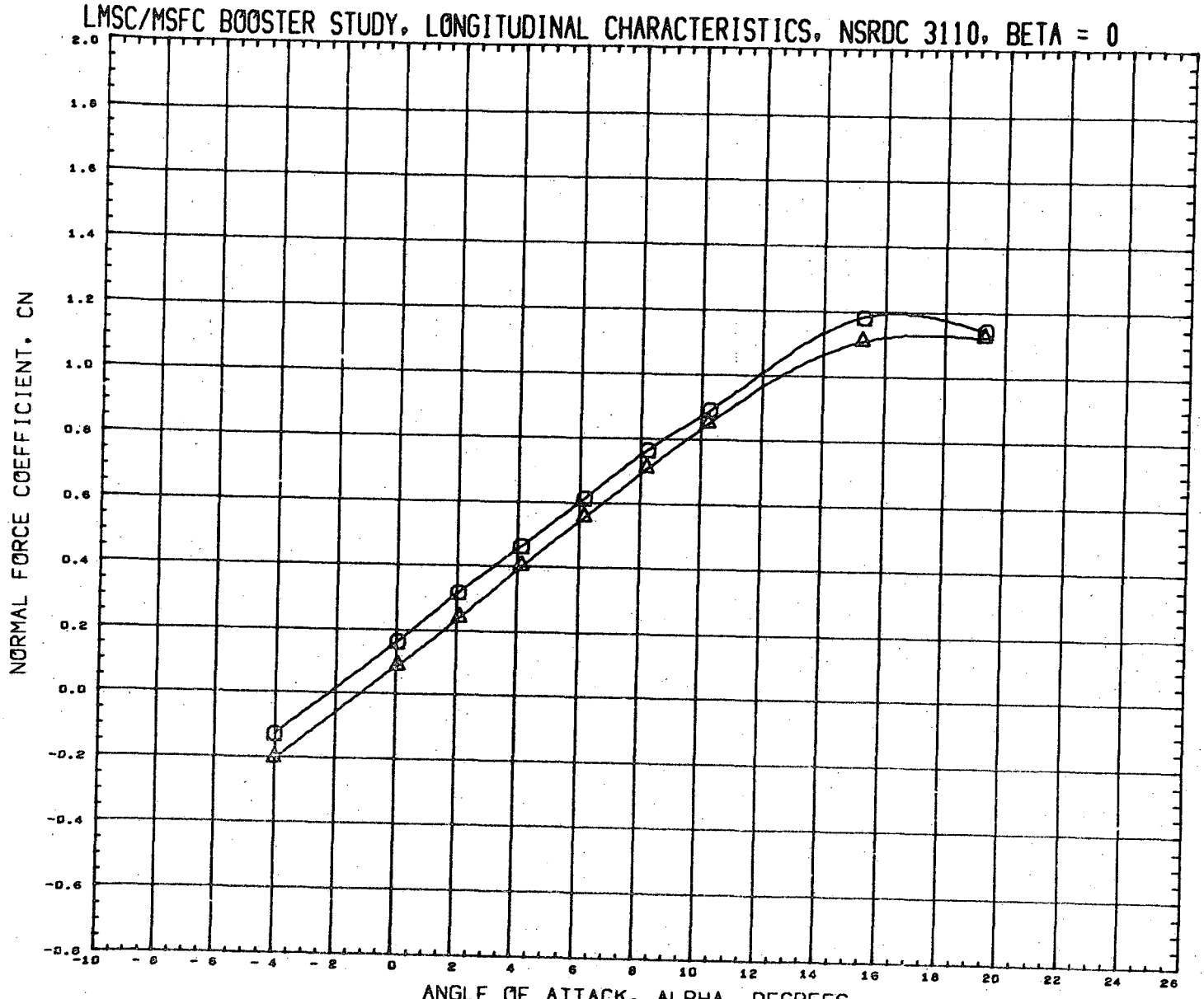
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2094)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000
(RN2158)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2121)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2165)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

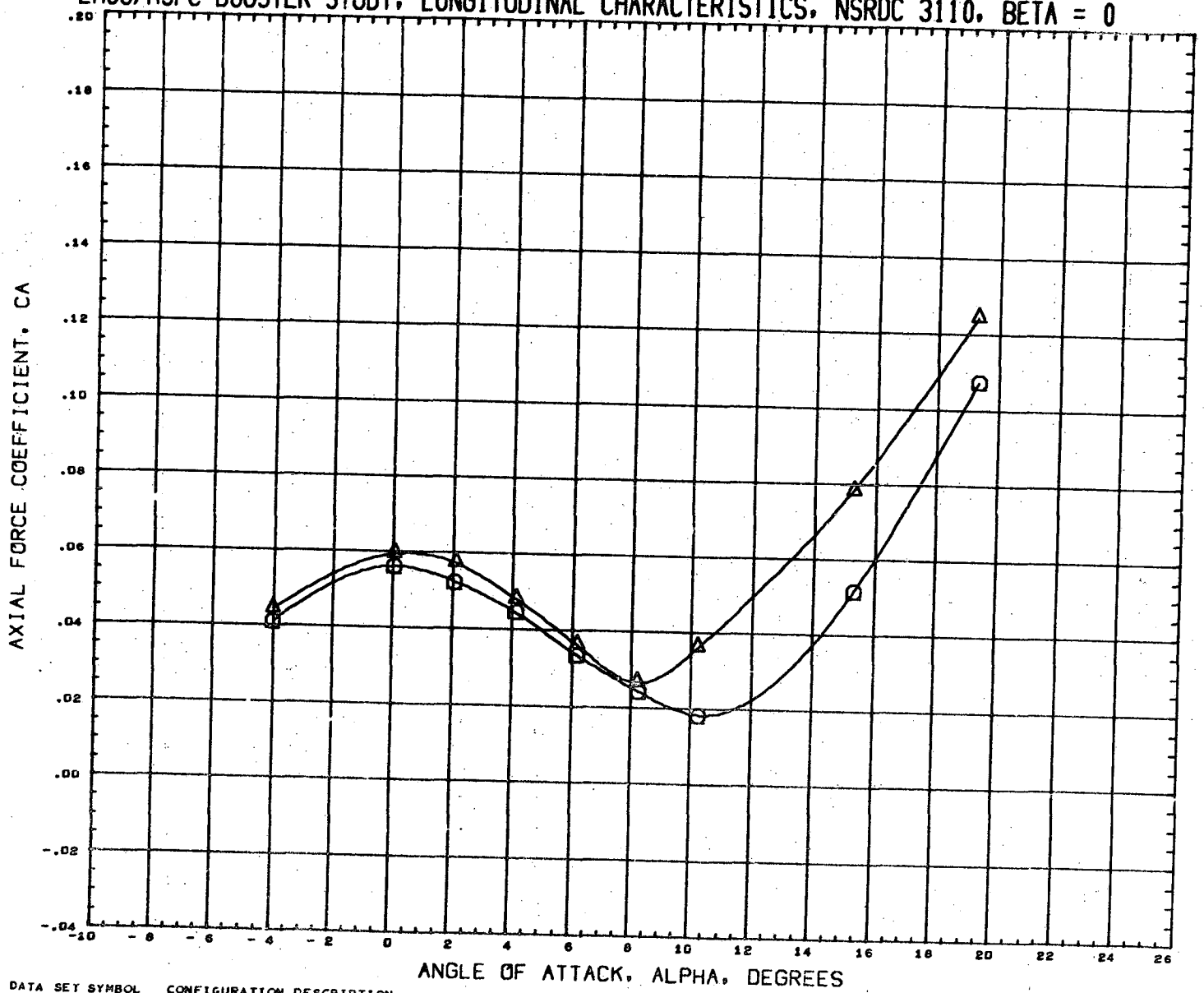
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

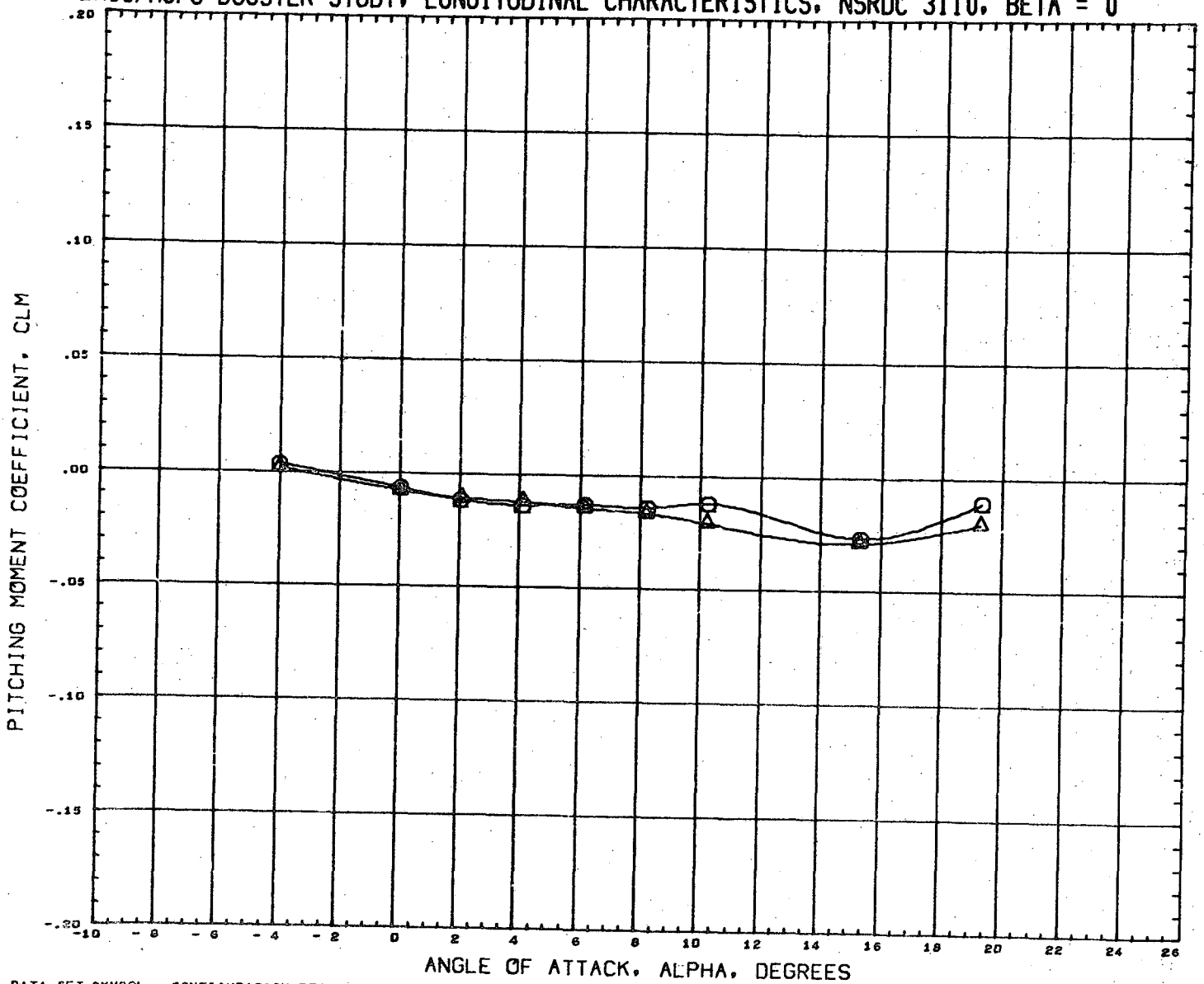


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2121)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000
(RN2185)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.302

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

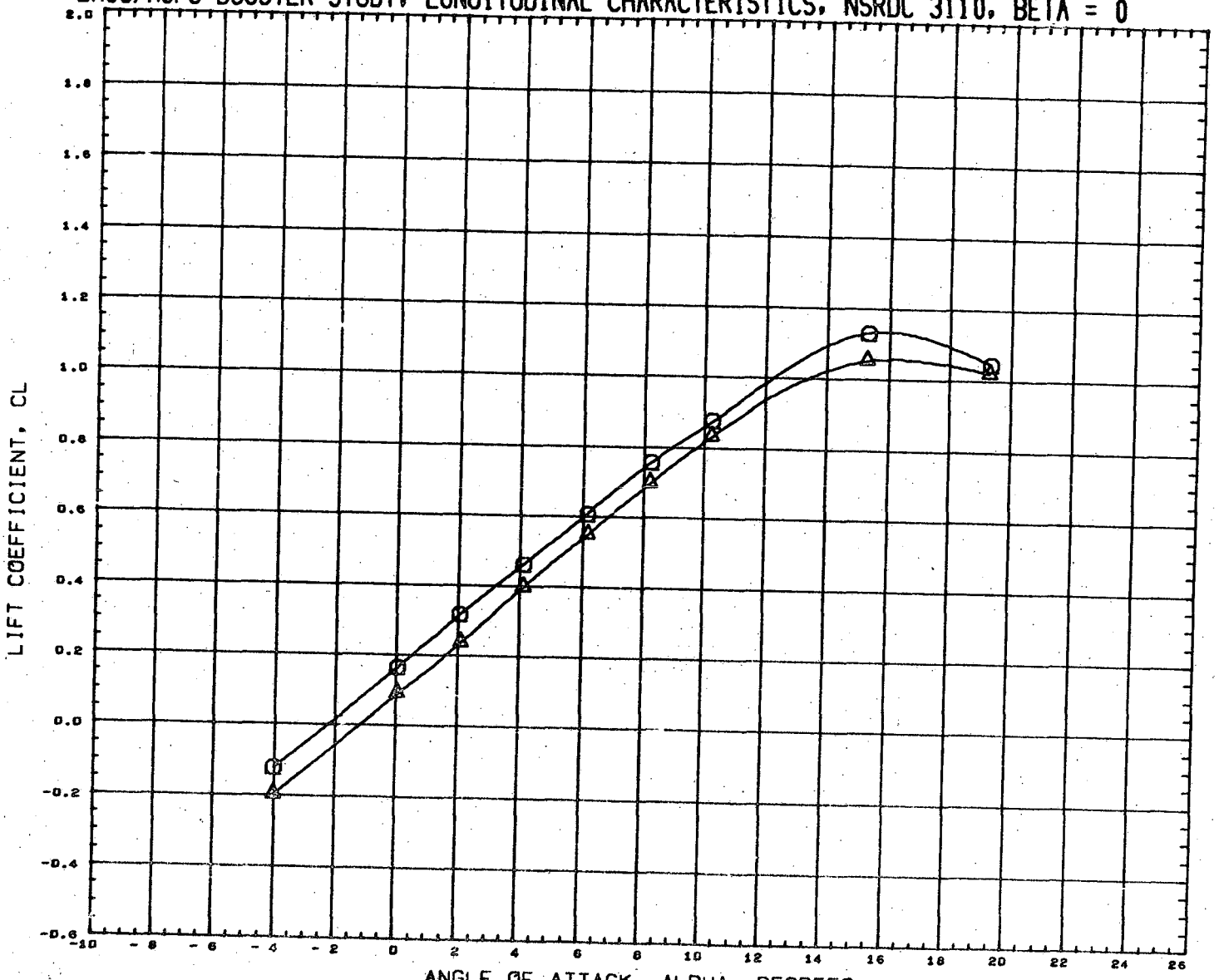


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2121)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000
(RN2185)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØOSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

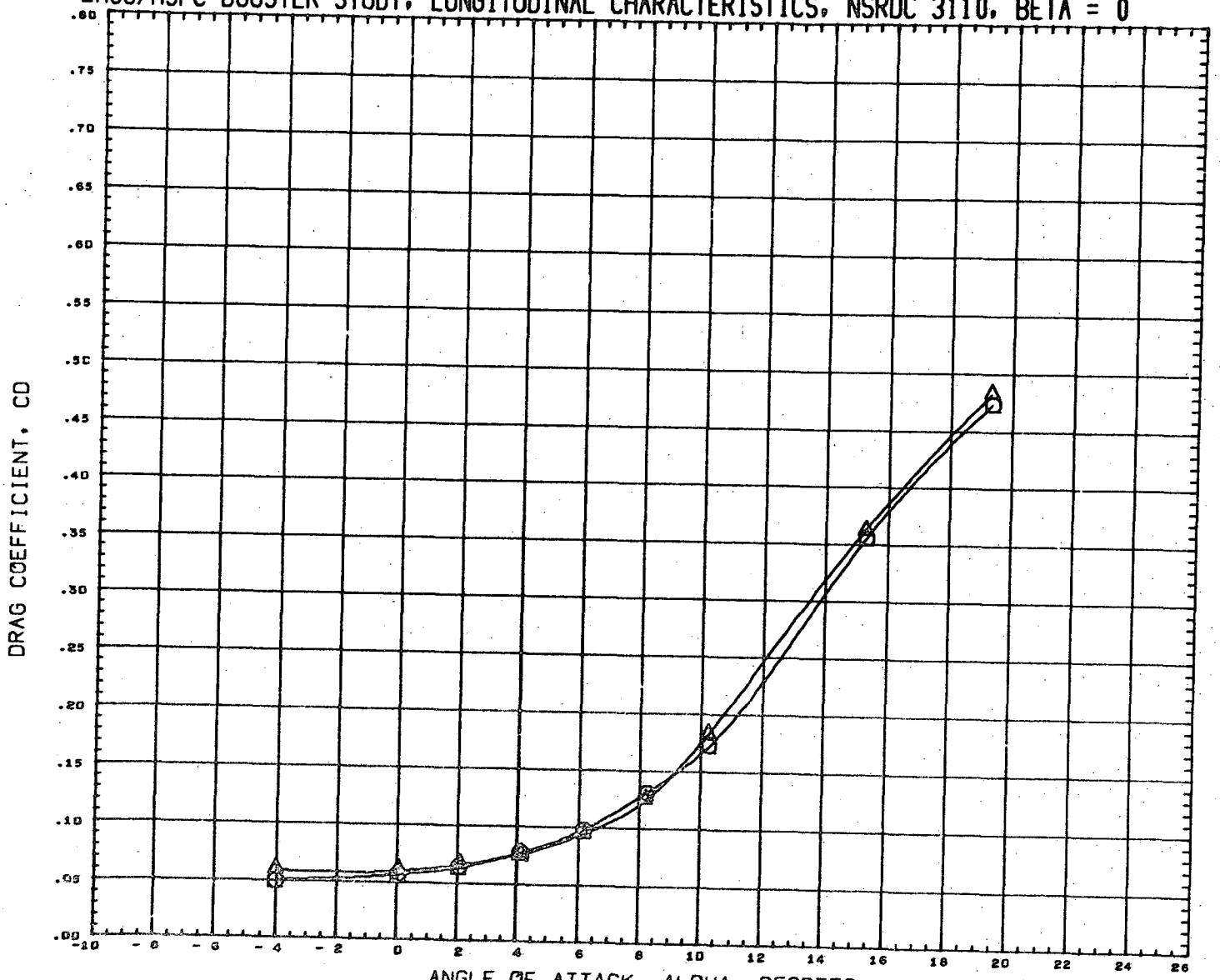


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2121)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000
(RN2185)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.362

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

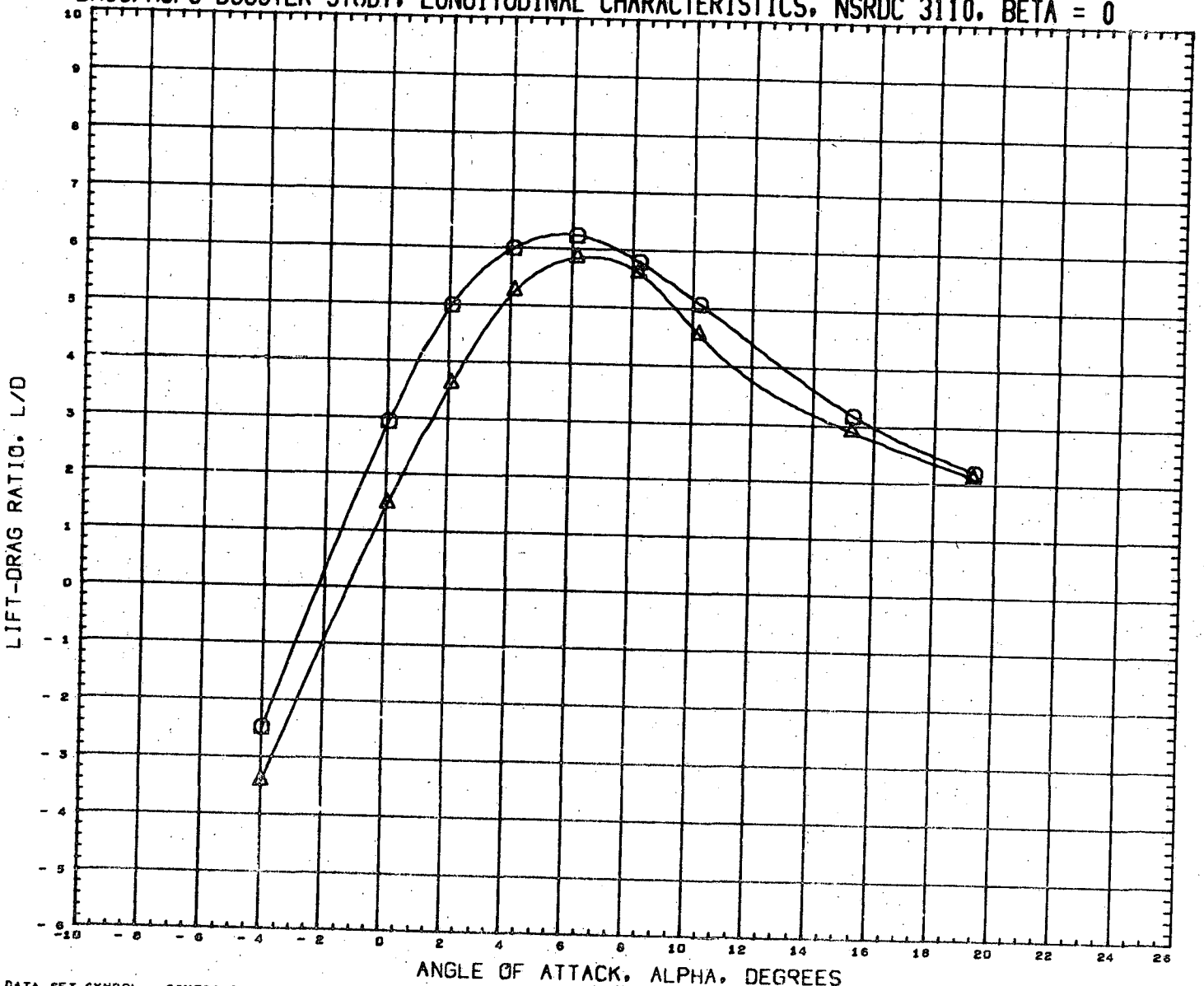


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2121)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000
(RN2185)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

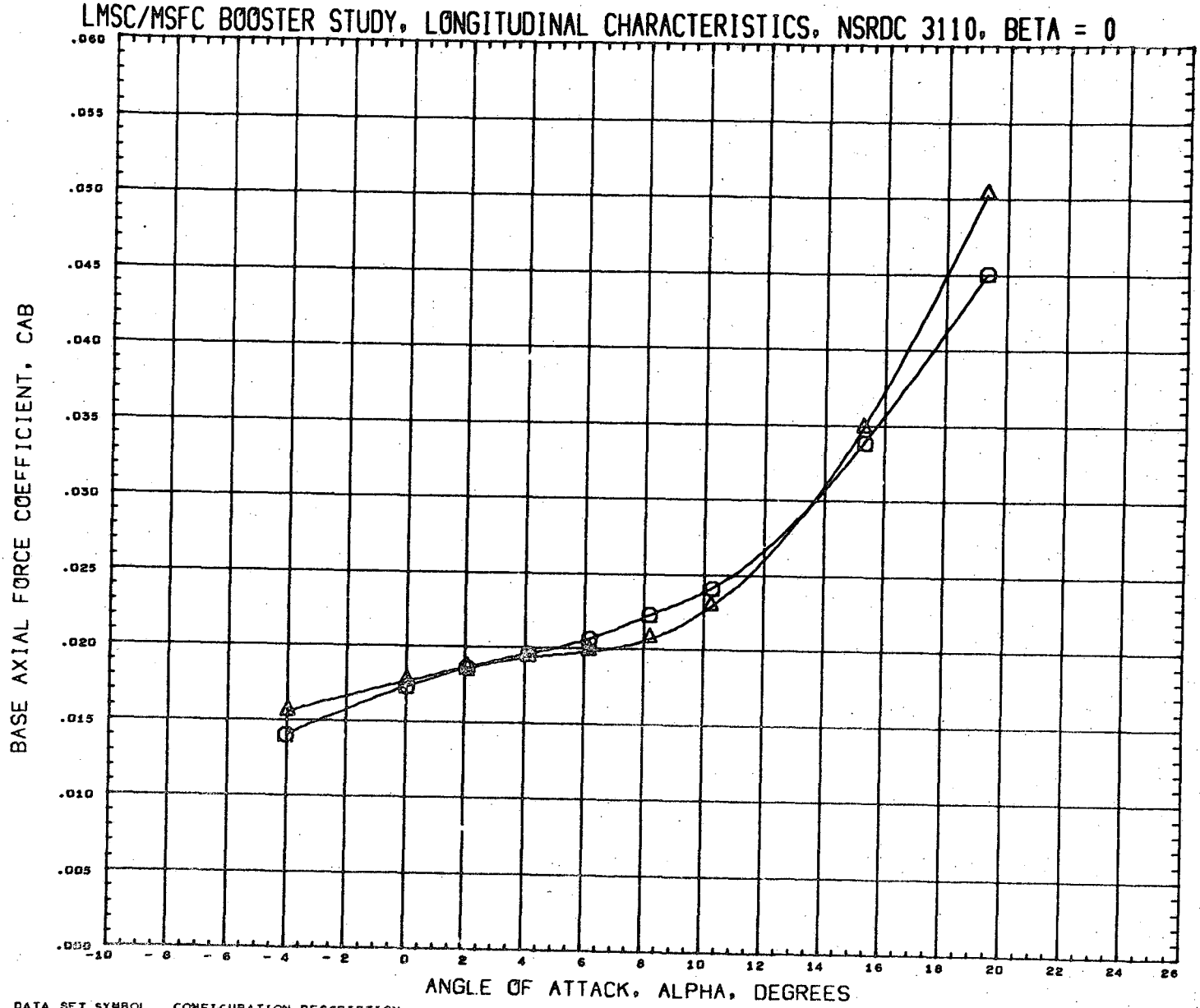


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2121)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000
(RN2185)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.302

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



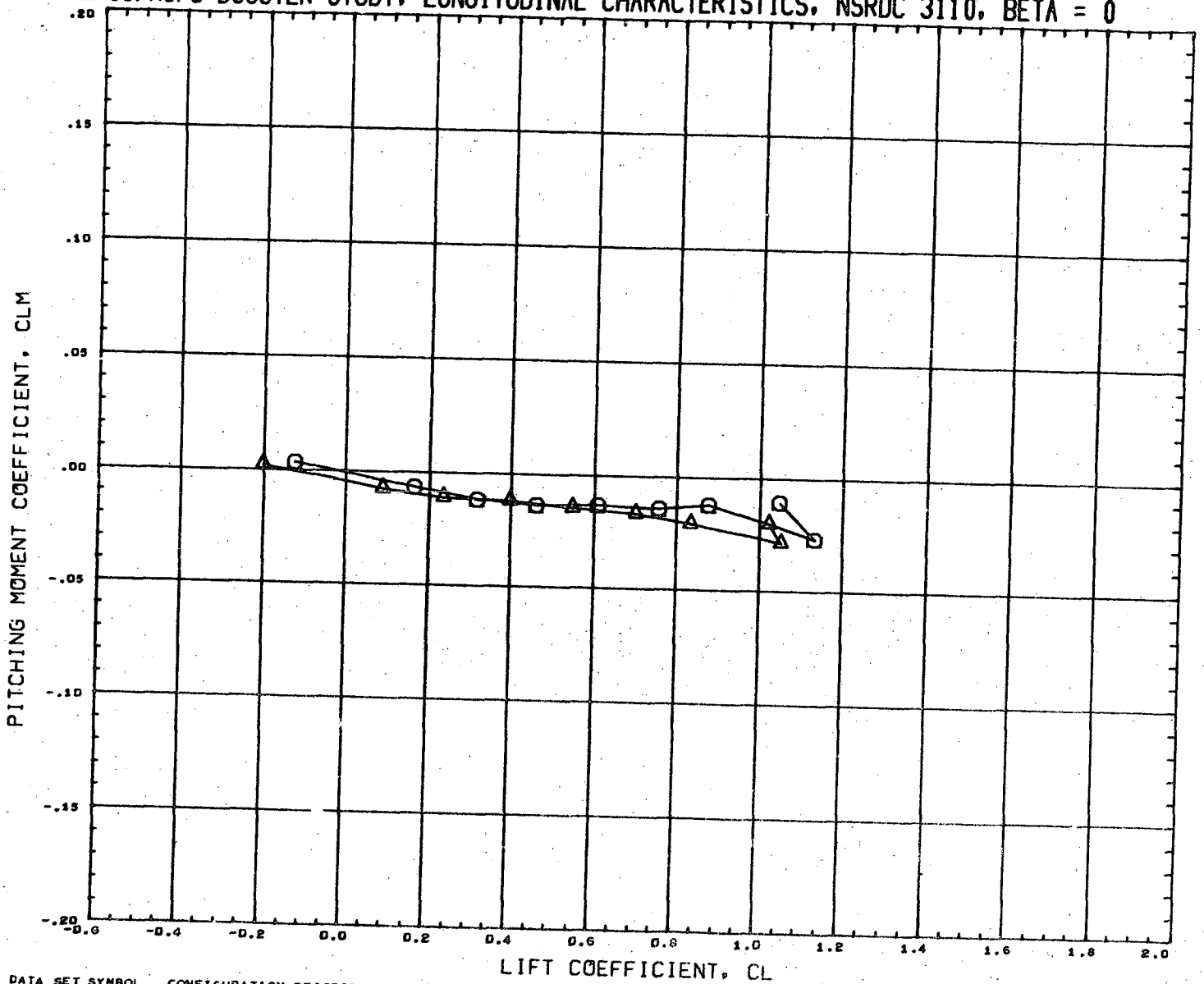
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2121)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2185)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

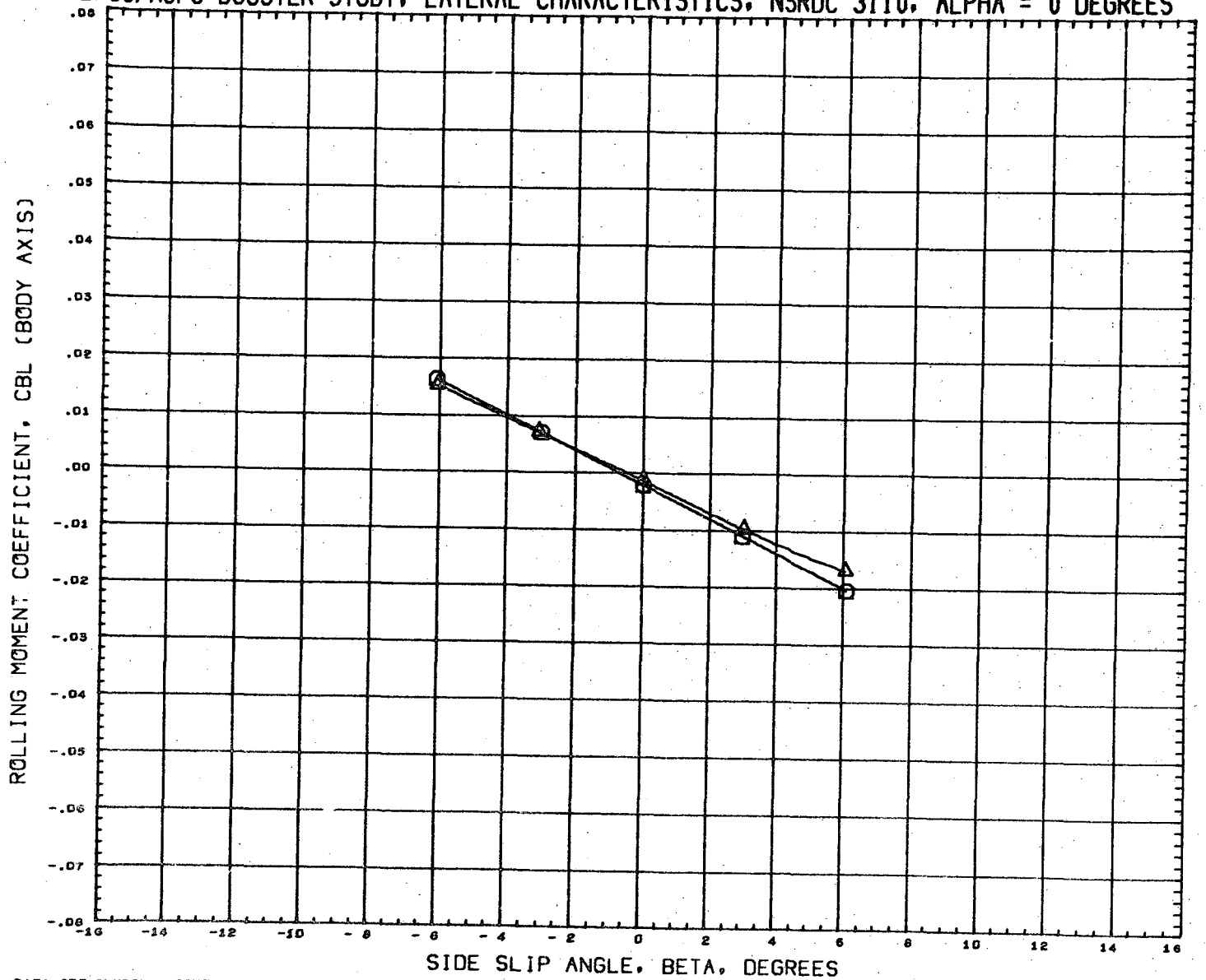


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2121)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000
(RN2185)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØØSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

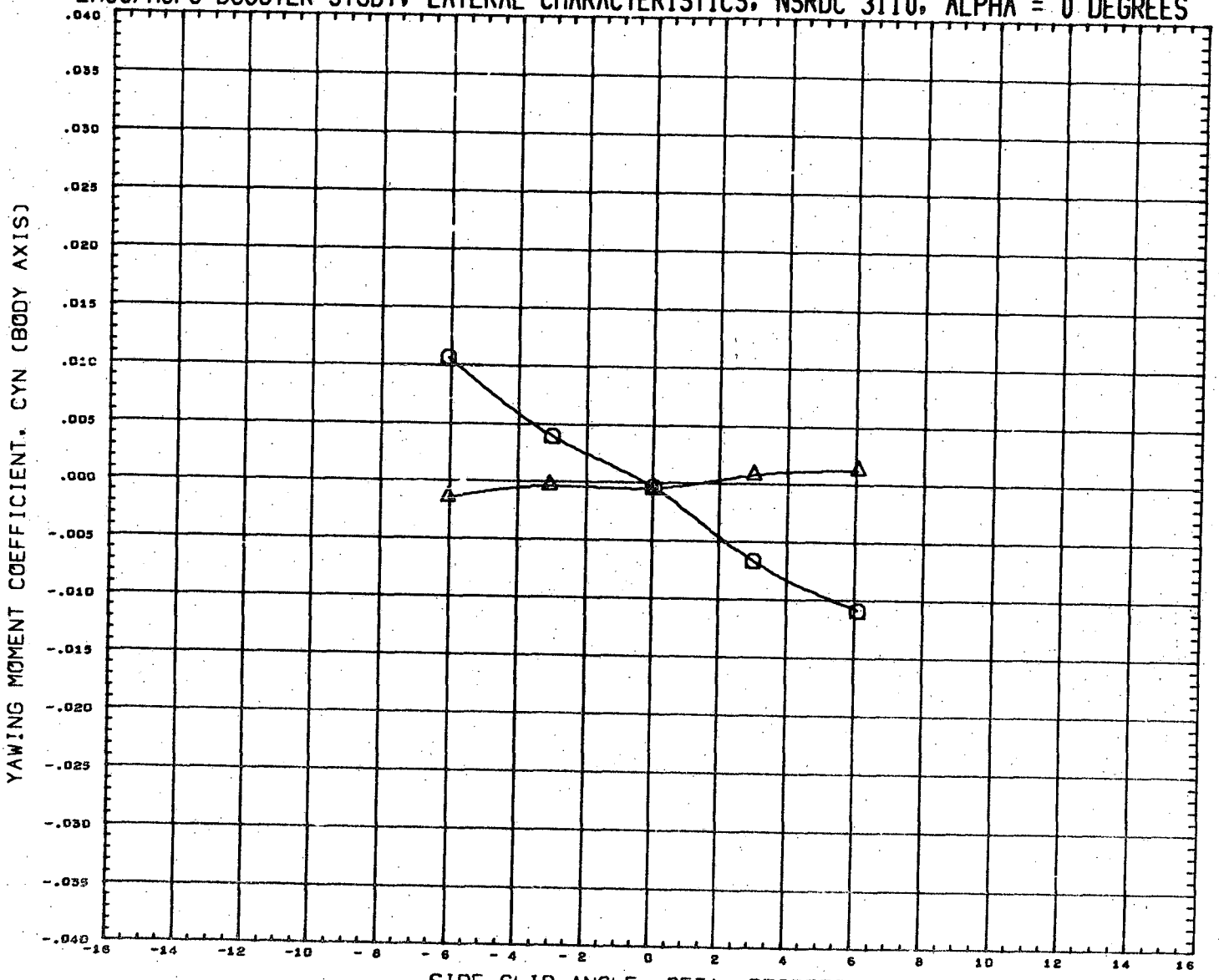


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2122)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000
(RN2186)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.362

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

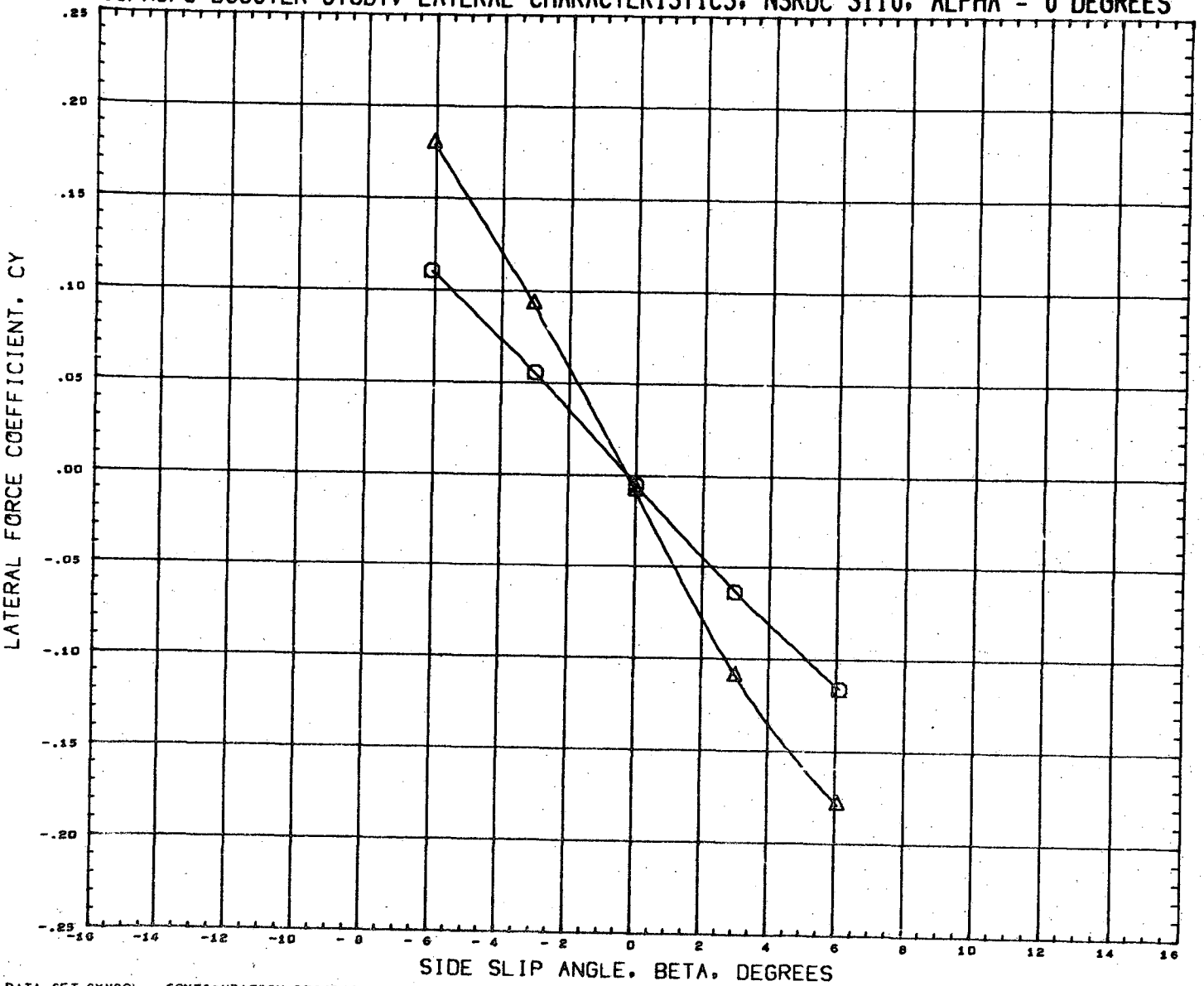


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2122)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000
(RN2186)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

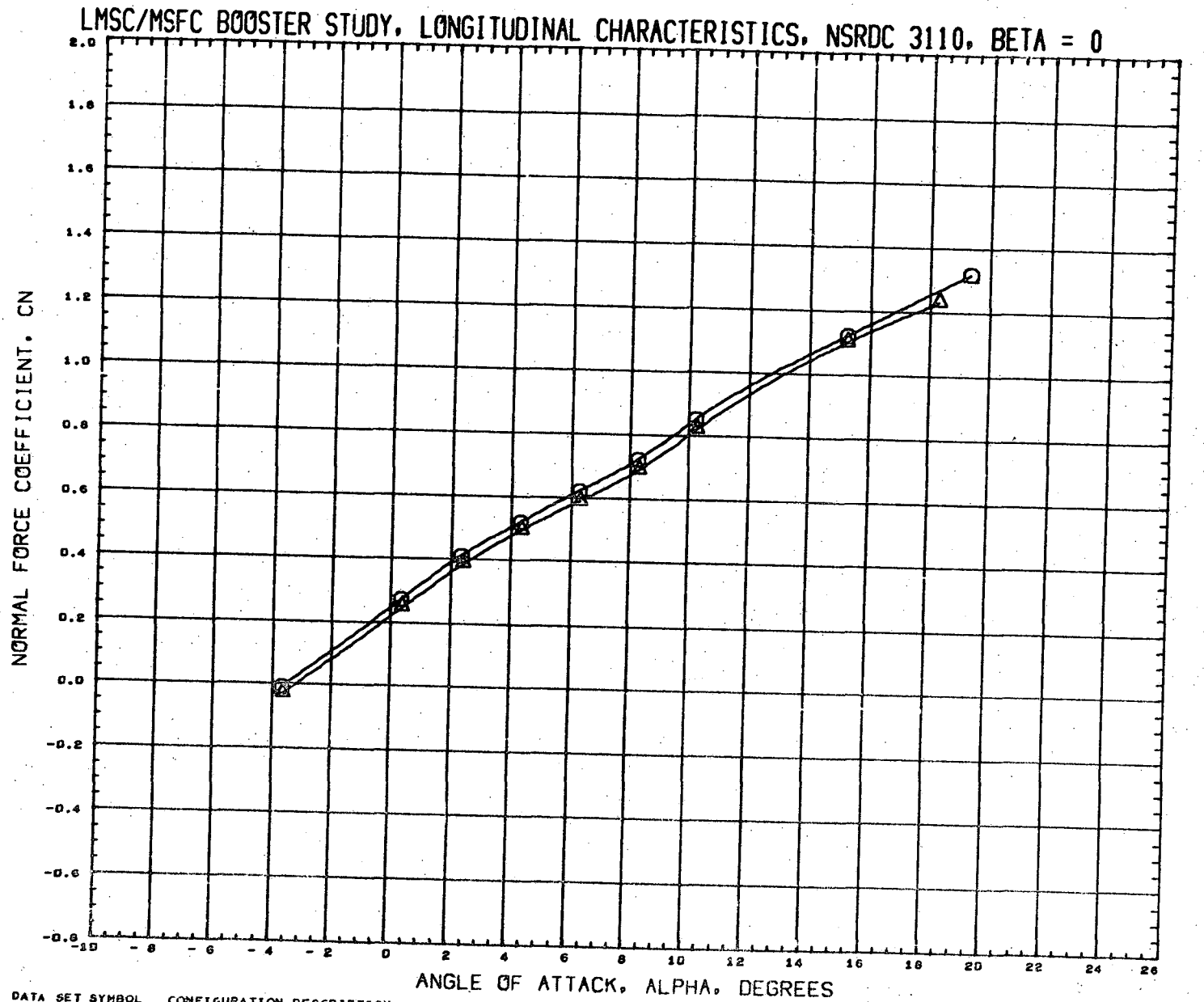
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2122)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000
(RN2186)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.382

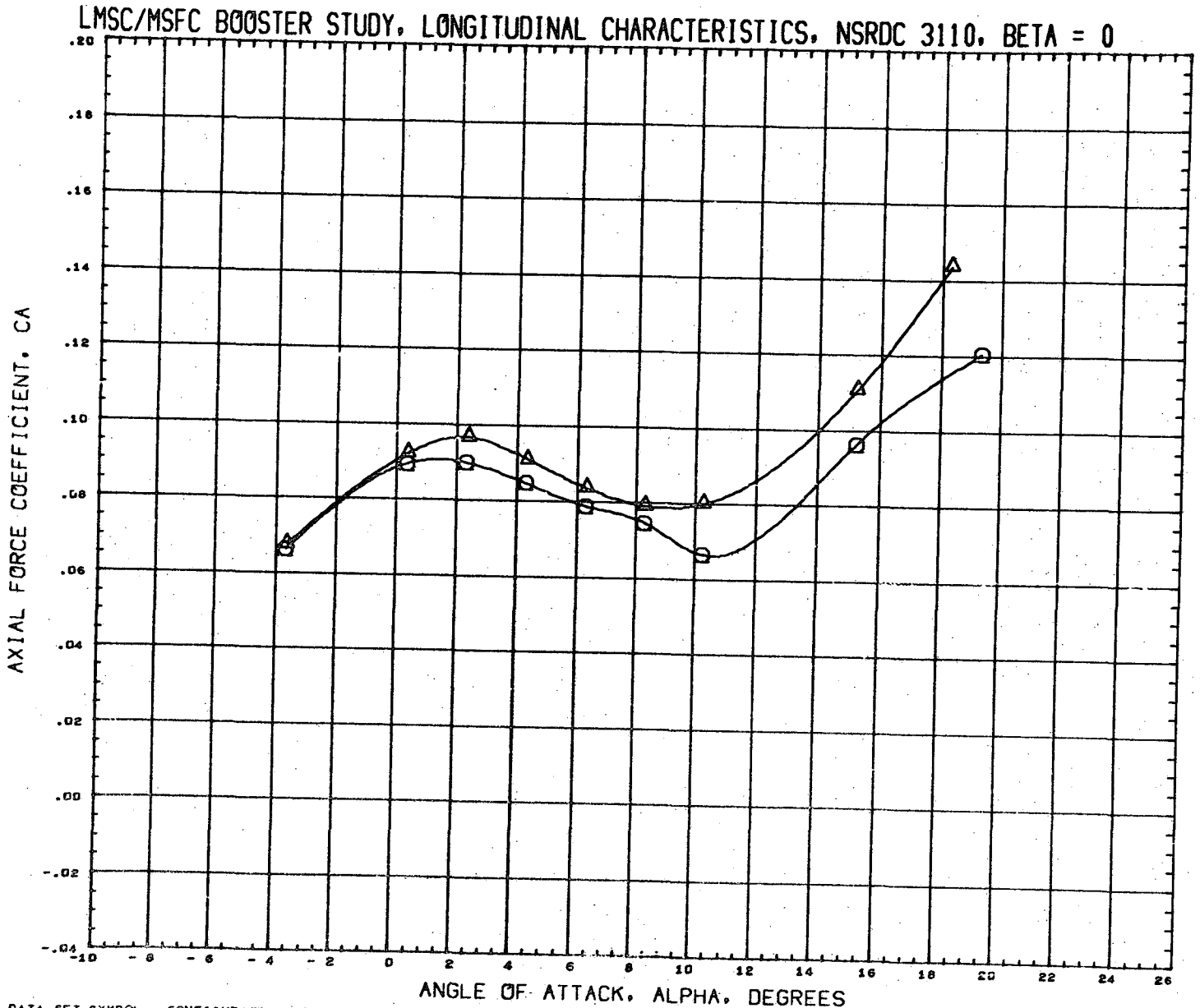
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2125) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000
(RN2189) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.382

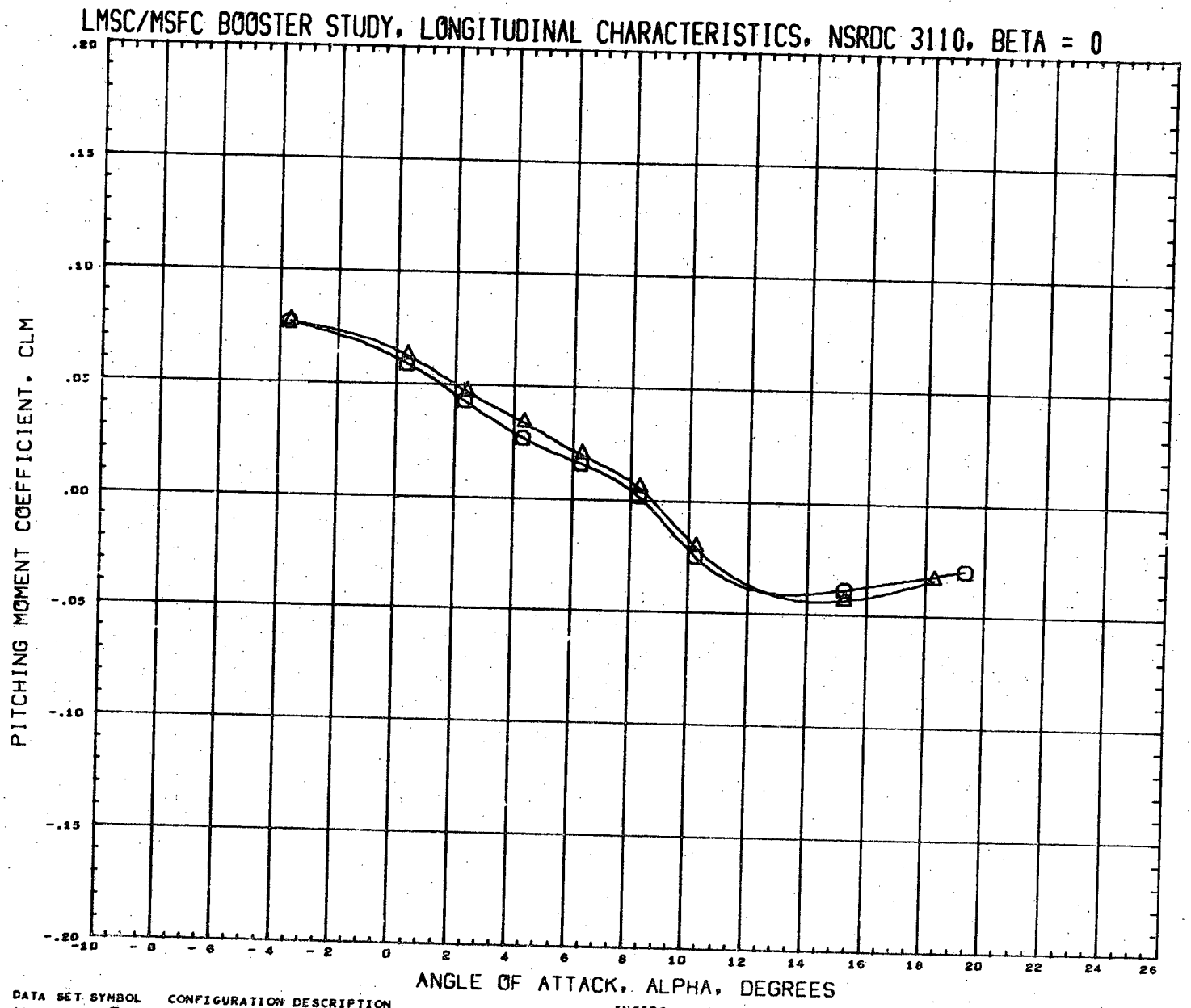
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2125)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000
(RN2189)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

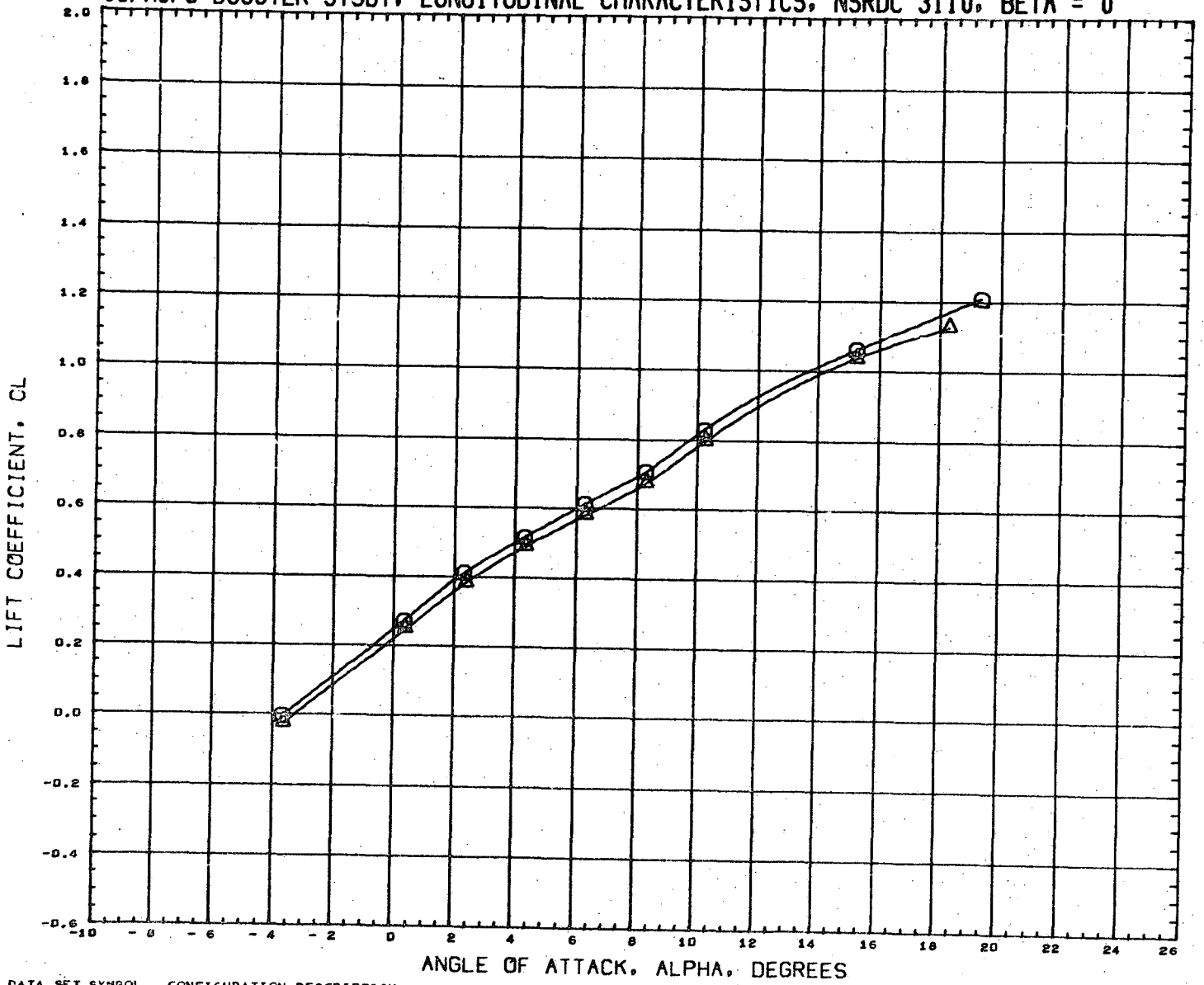


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2125)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000
(RN2189)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

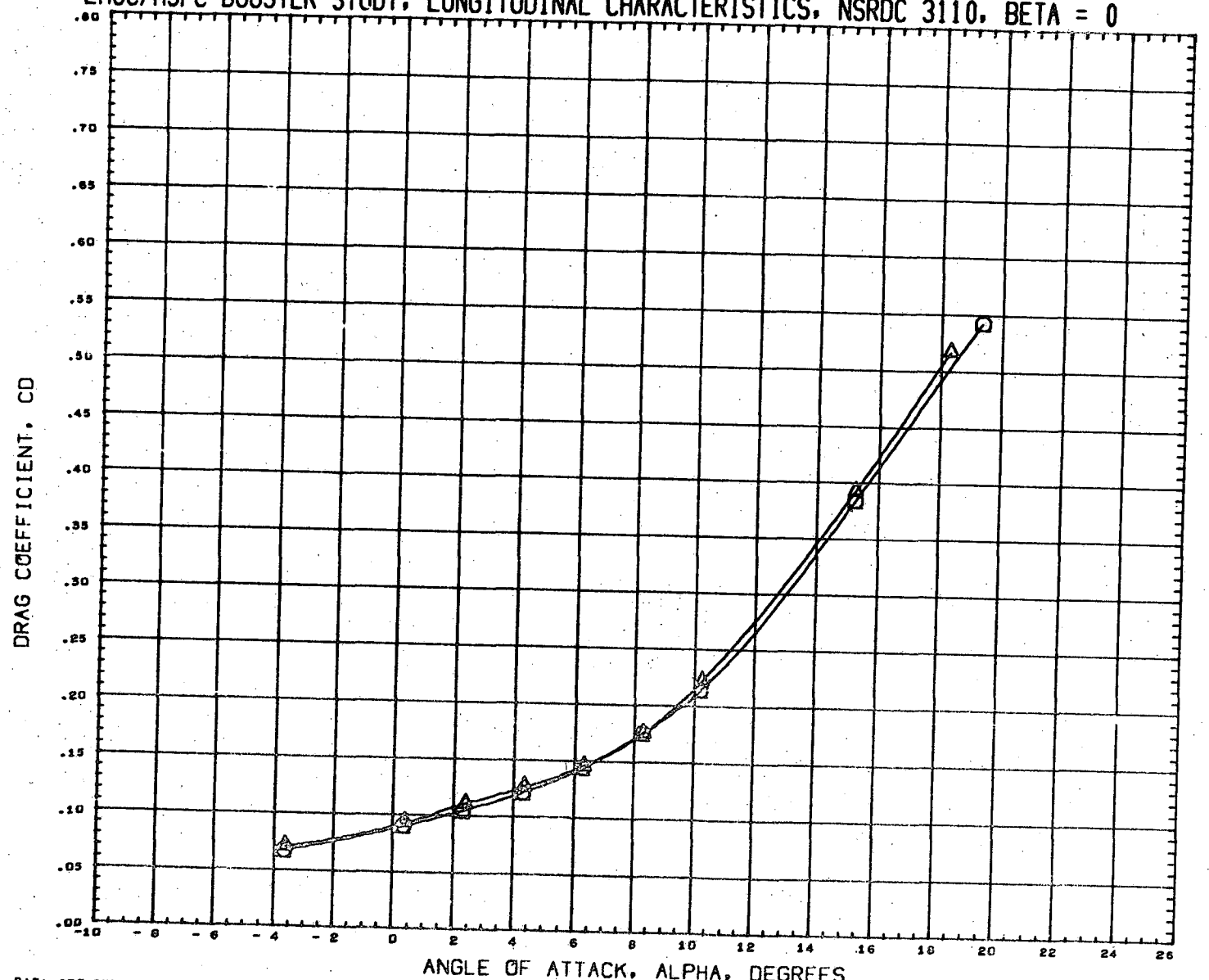


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2125)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000
(RN2189)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



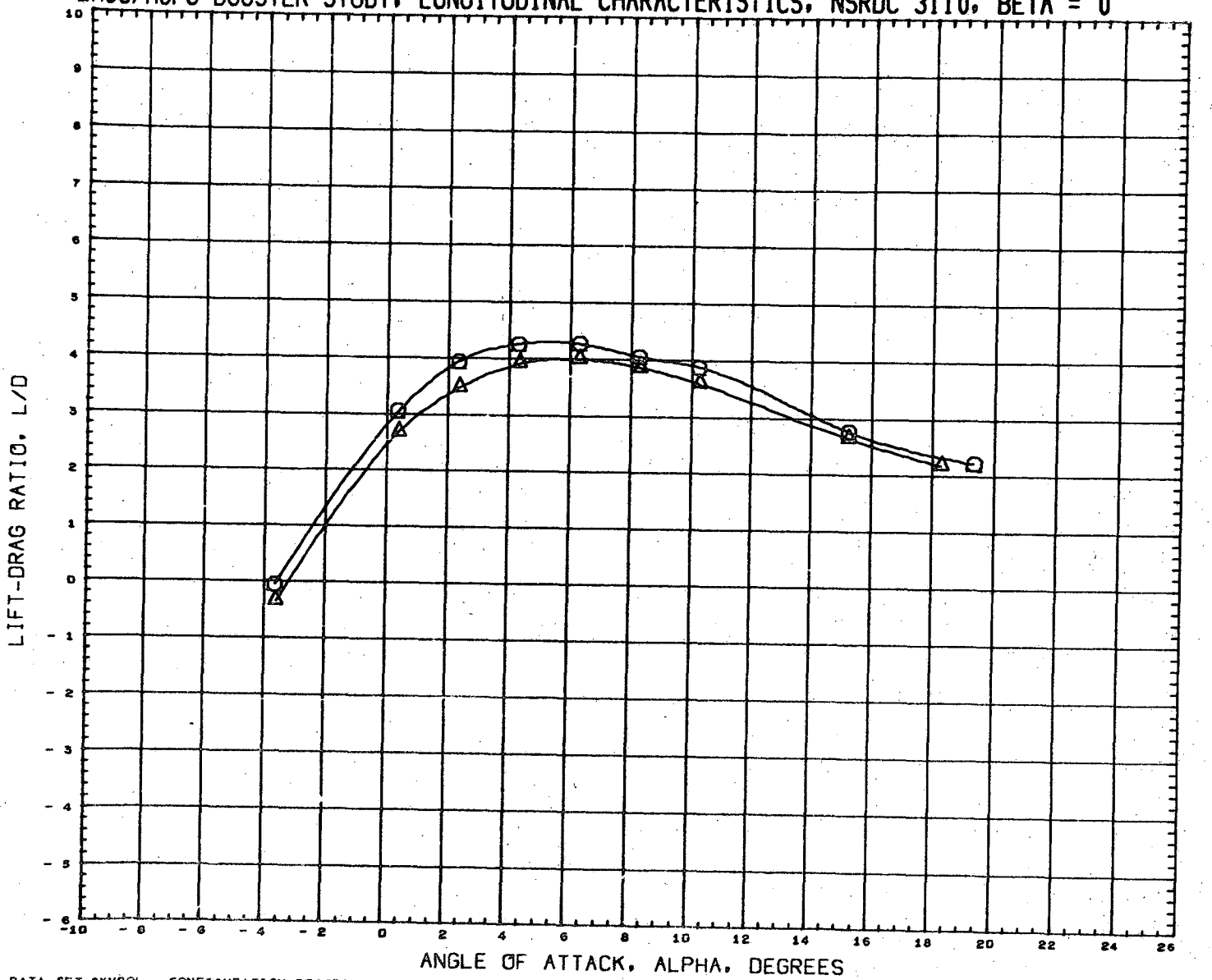
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2125)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000
(RN2169)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

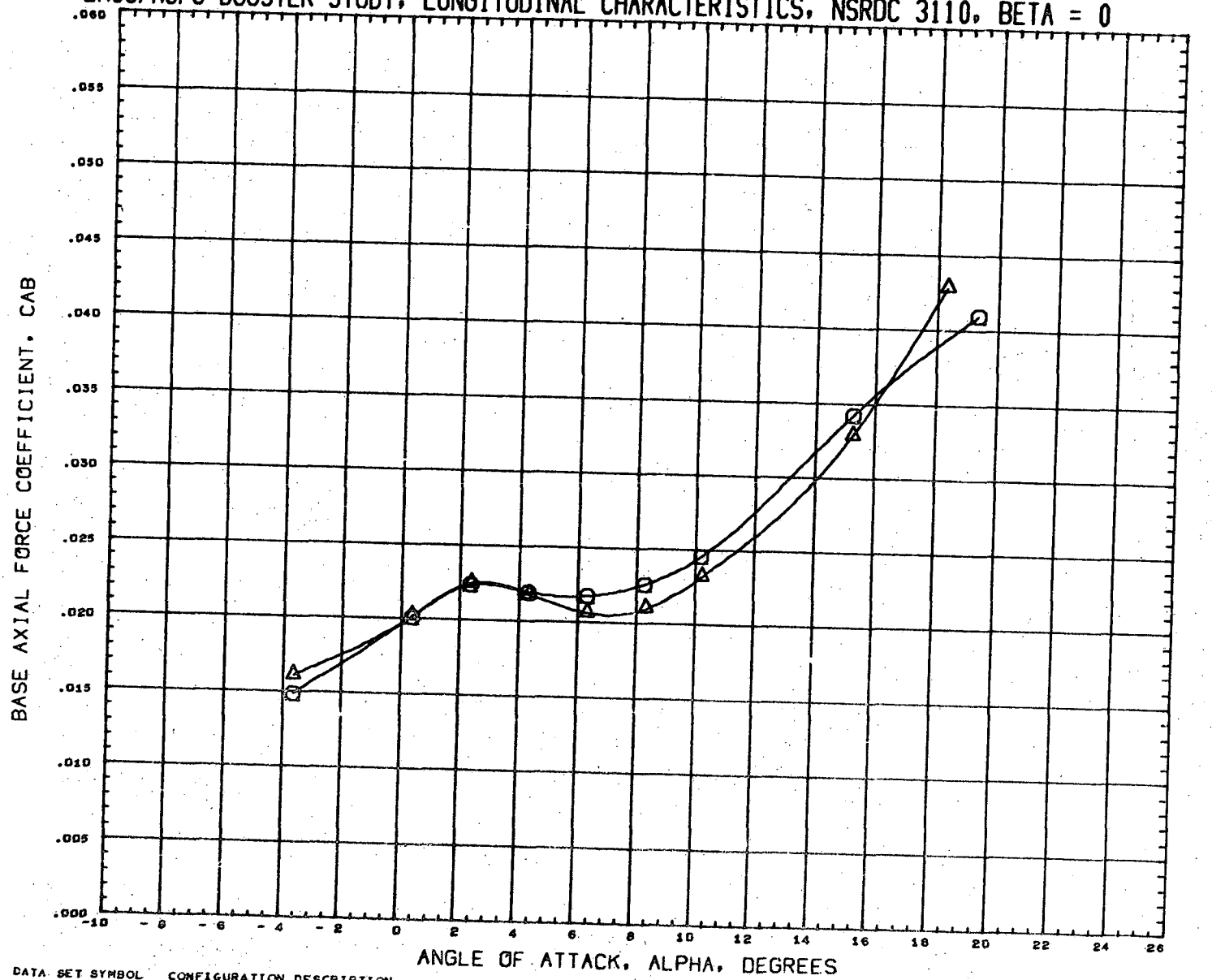
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2125)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000
(RN2169)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

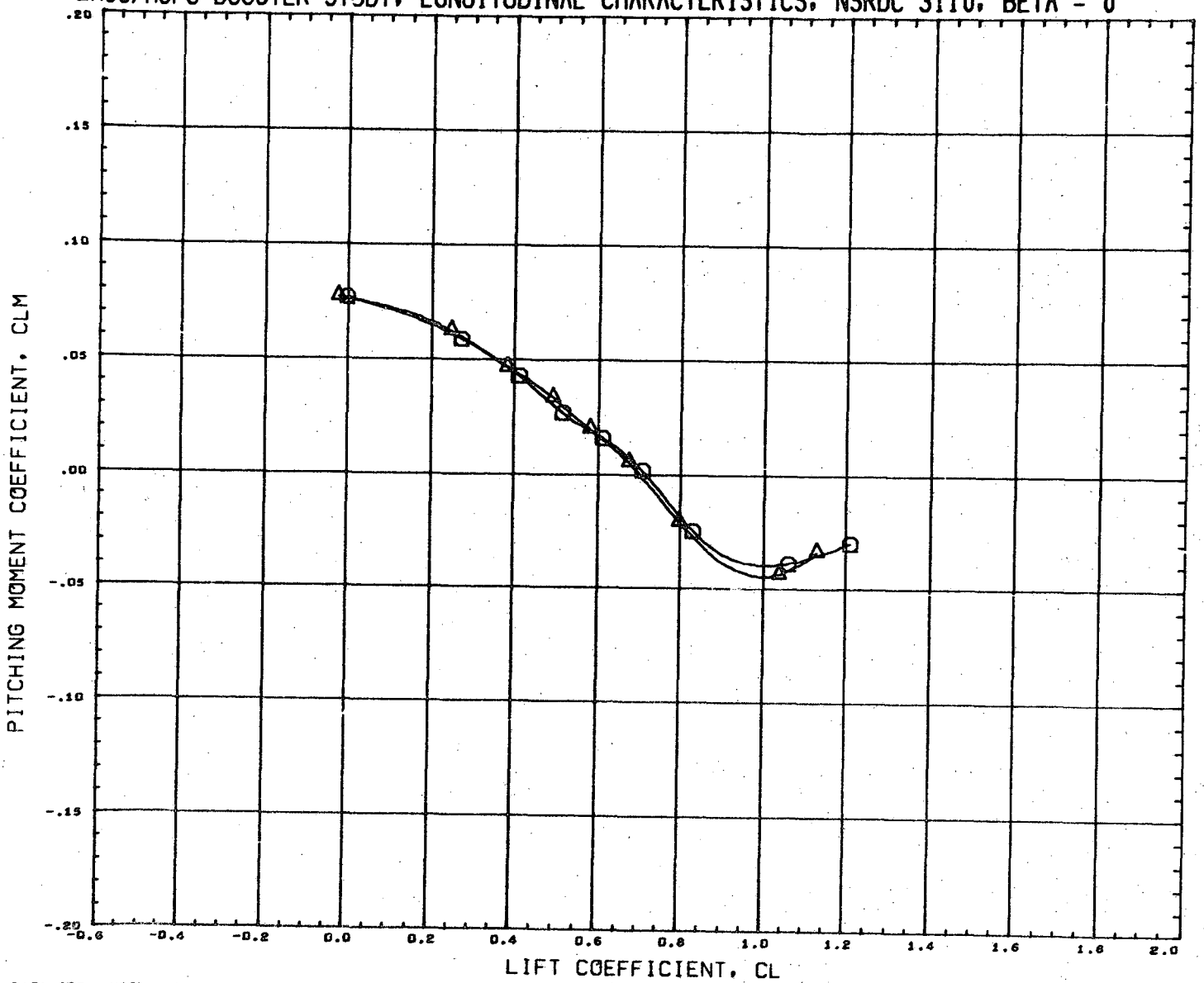


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2125)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000
(RN2169)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

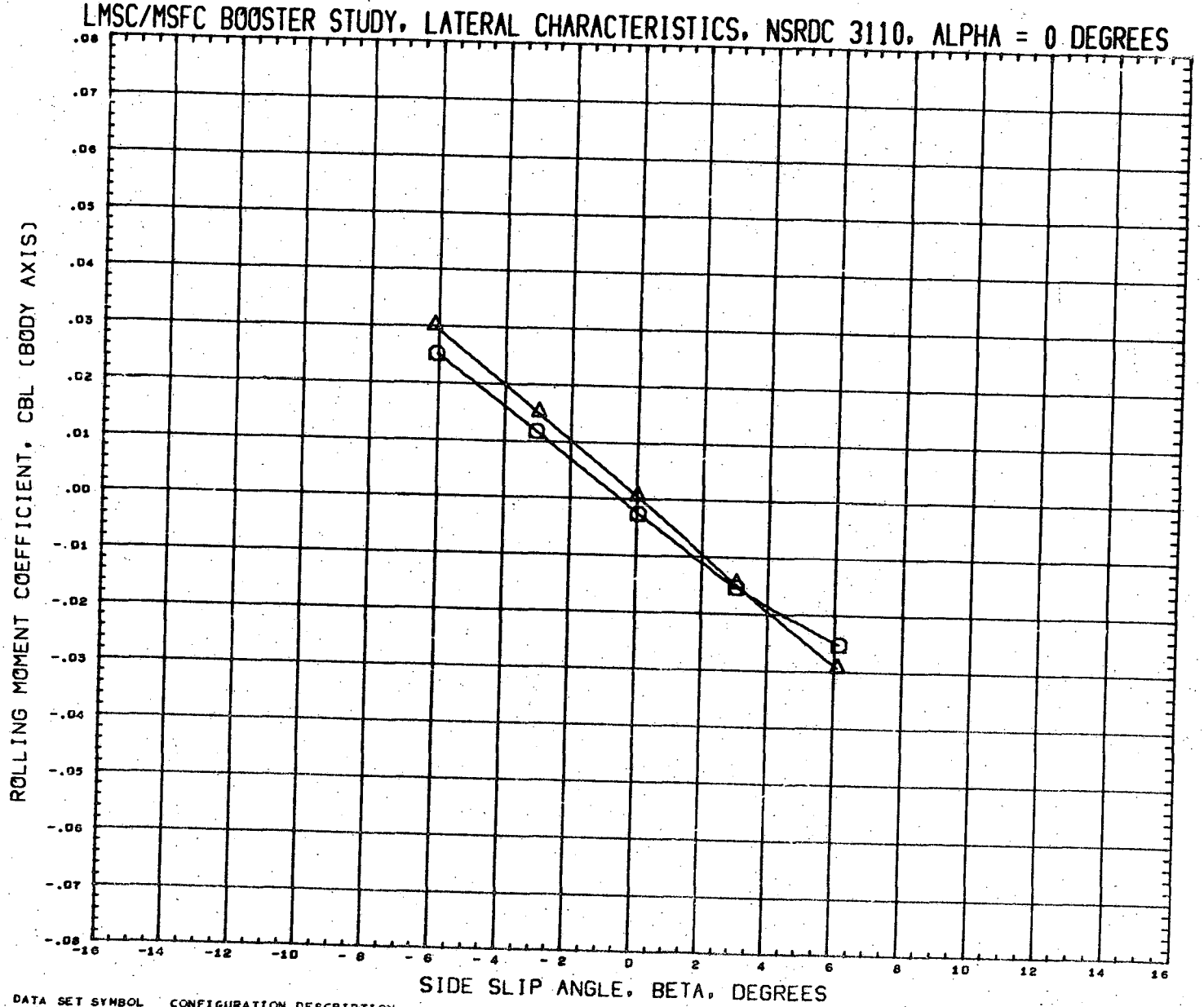
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2125)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000
(RN2189)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

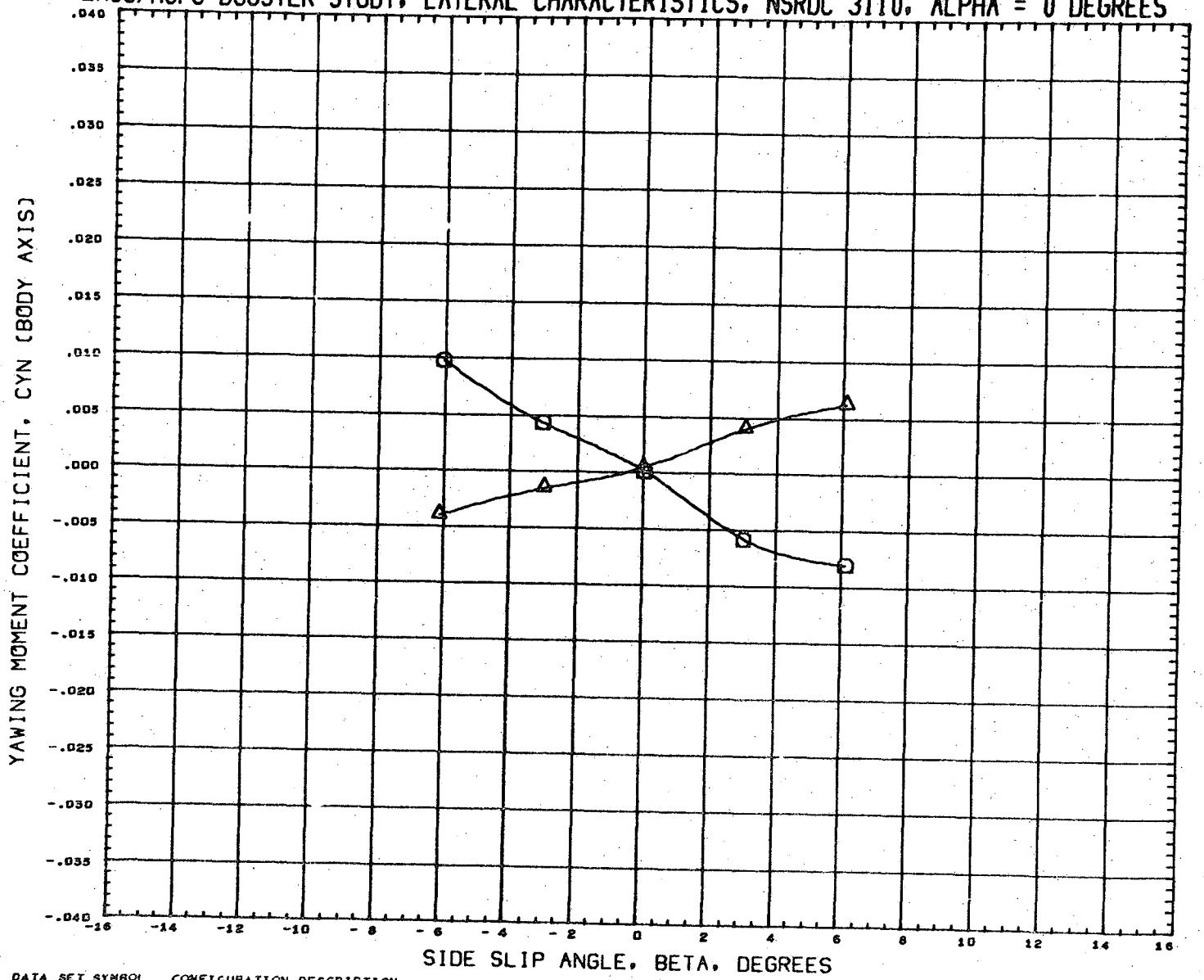


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2126)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000
(RN2190)	△	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

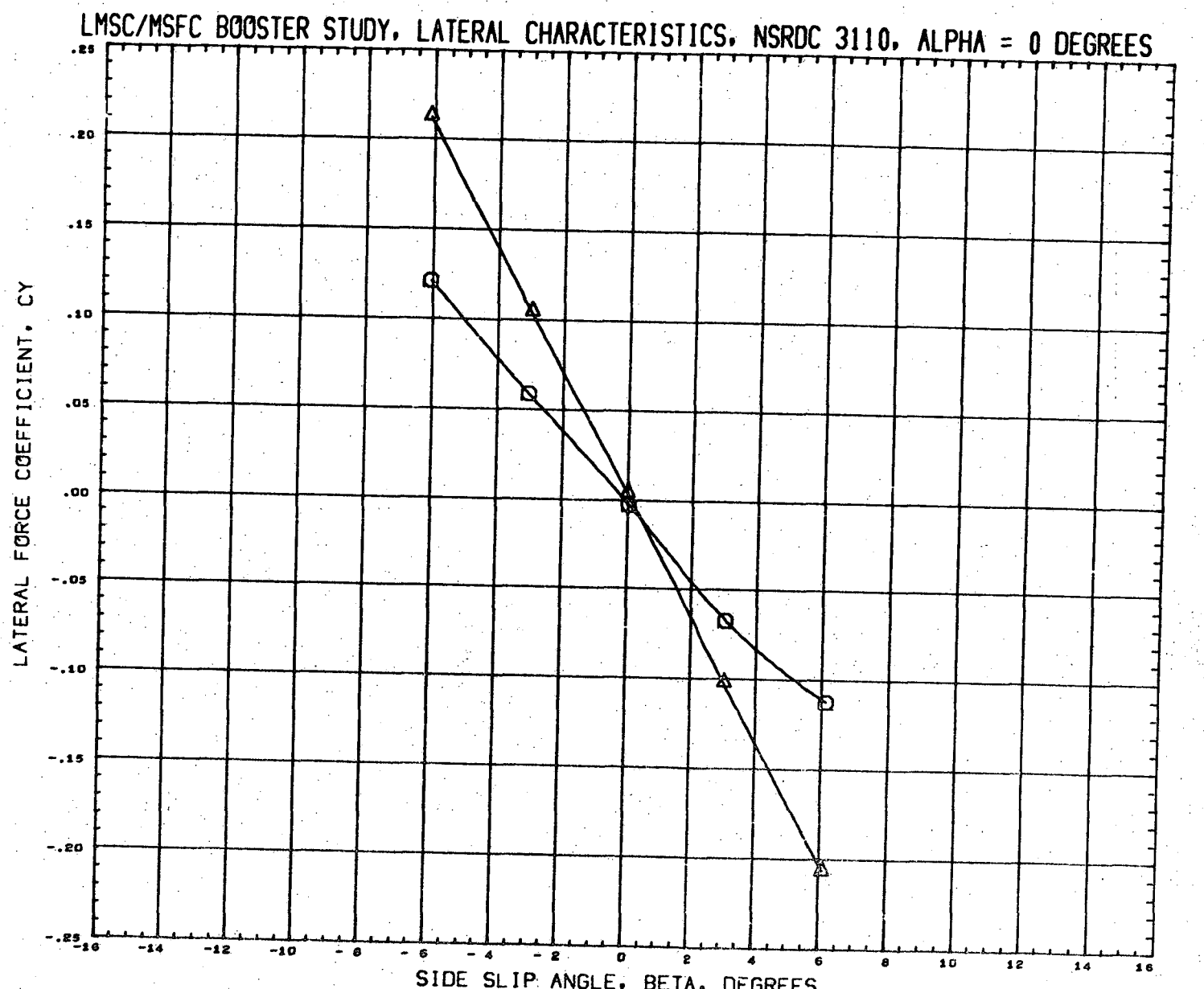
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2126)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000
(RN2190)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

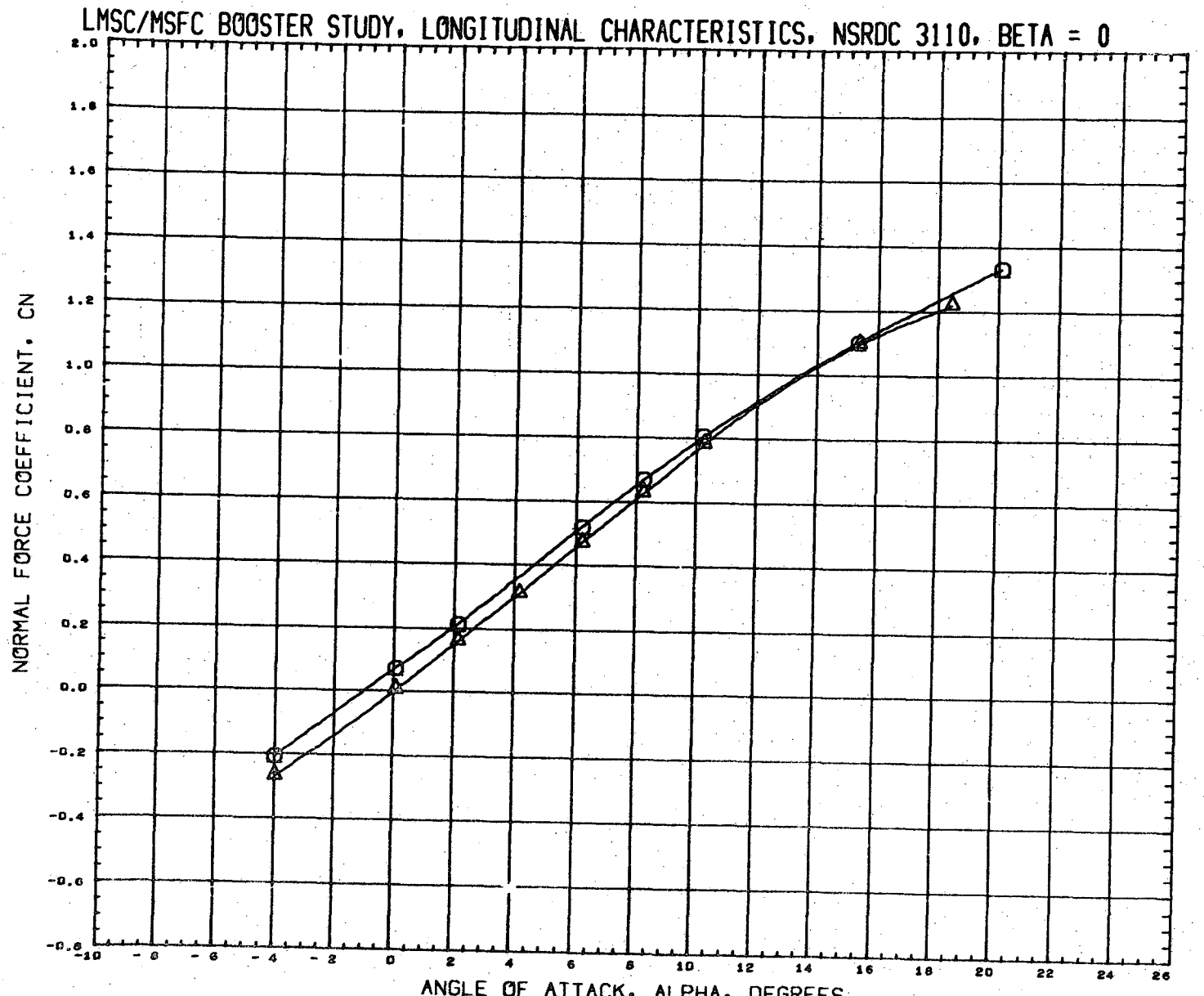
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2126)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000
(RN2190)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



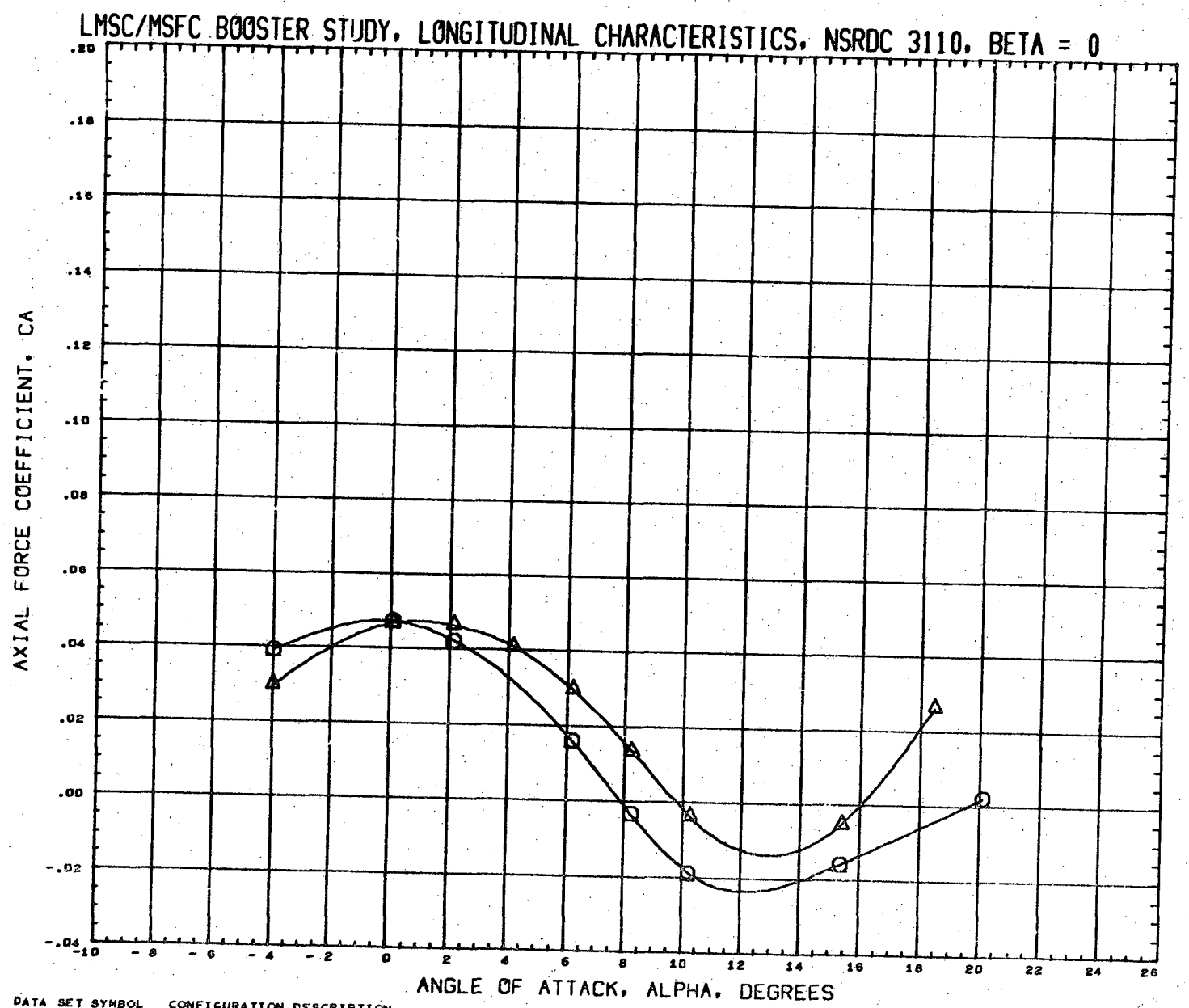
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2017)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

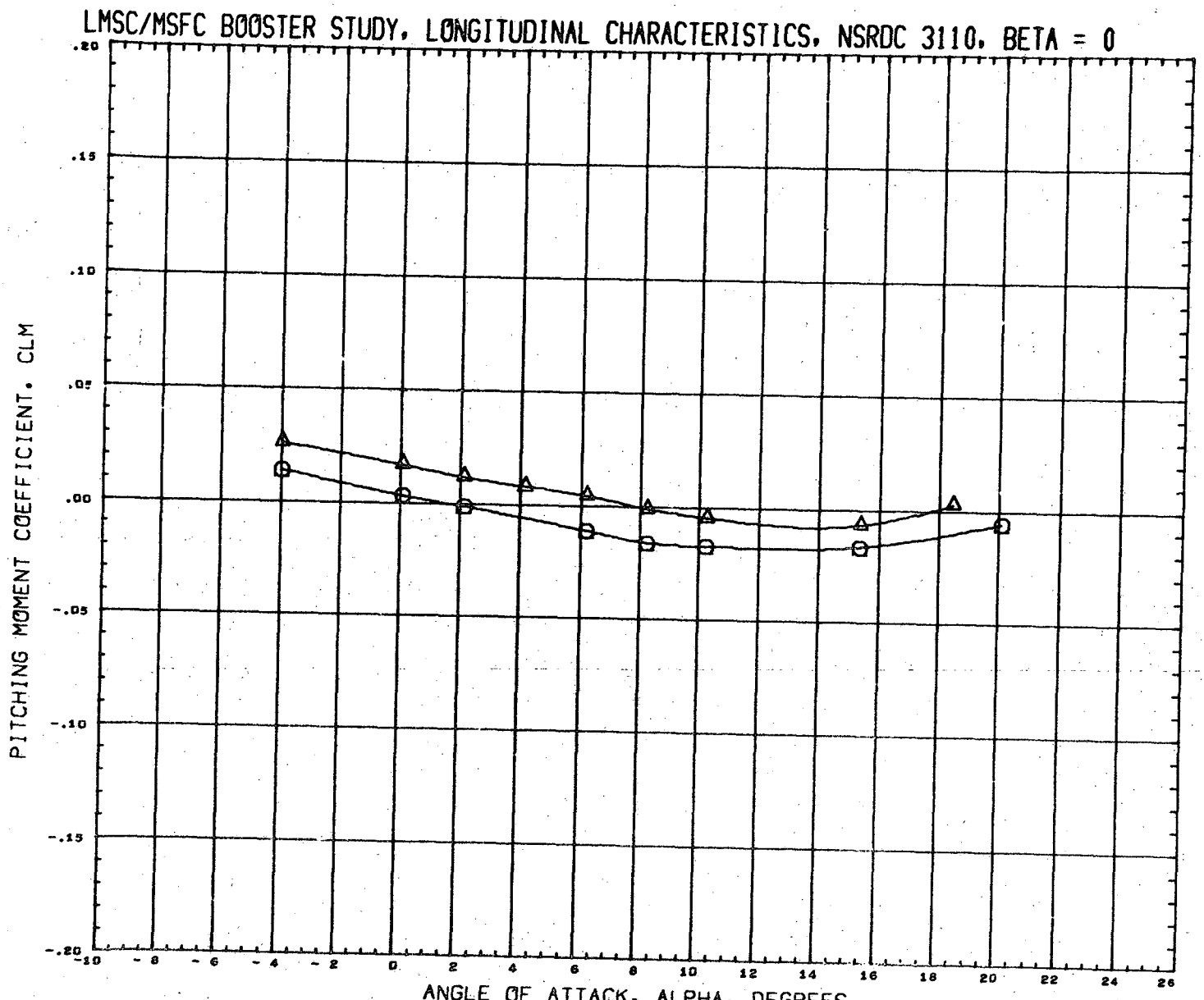
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2017)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

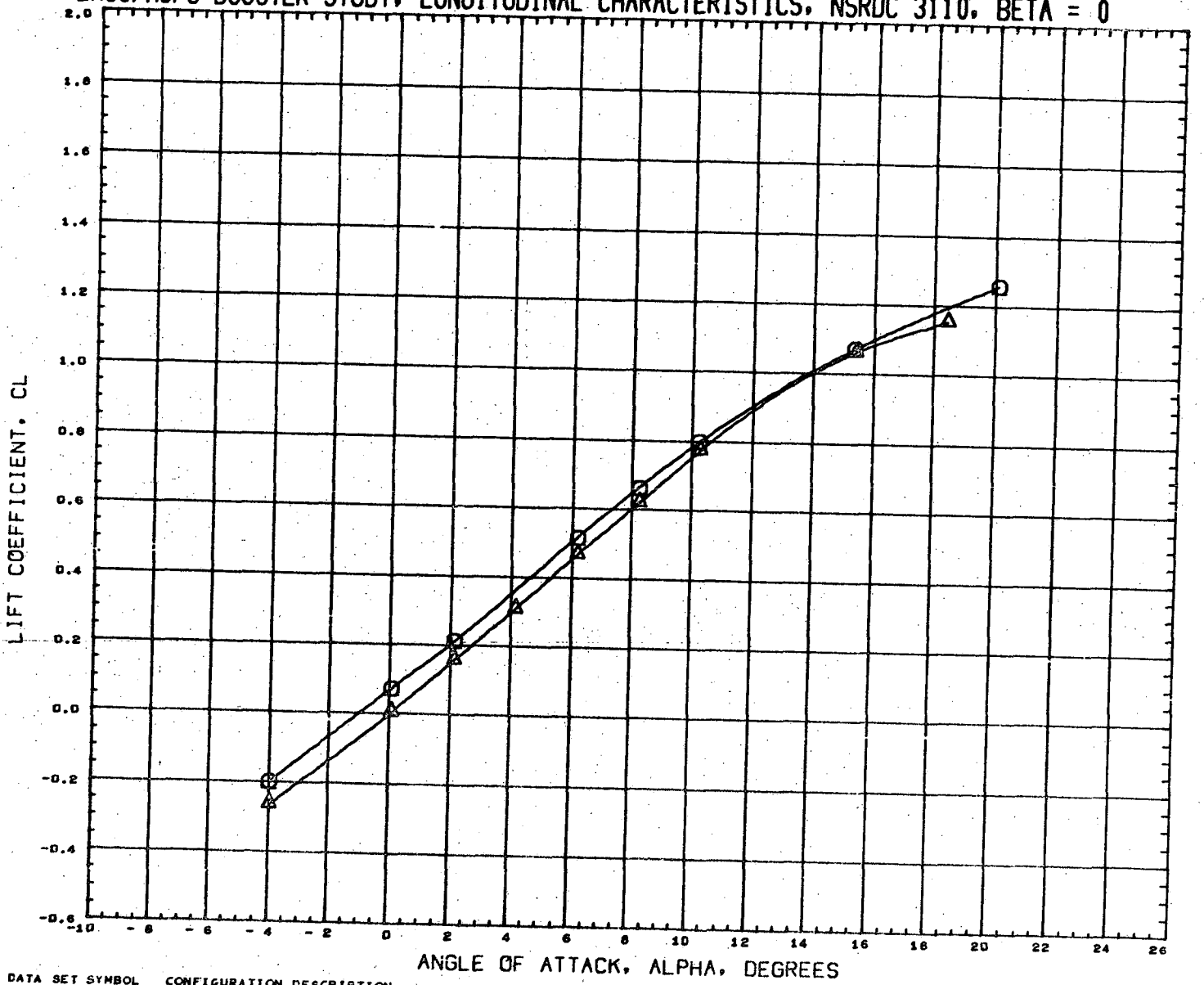


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2001)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2017)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2017)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

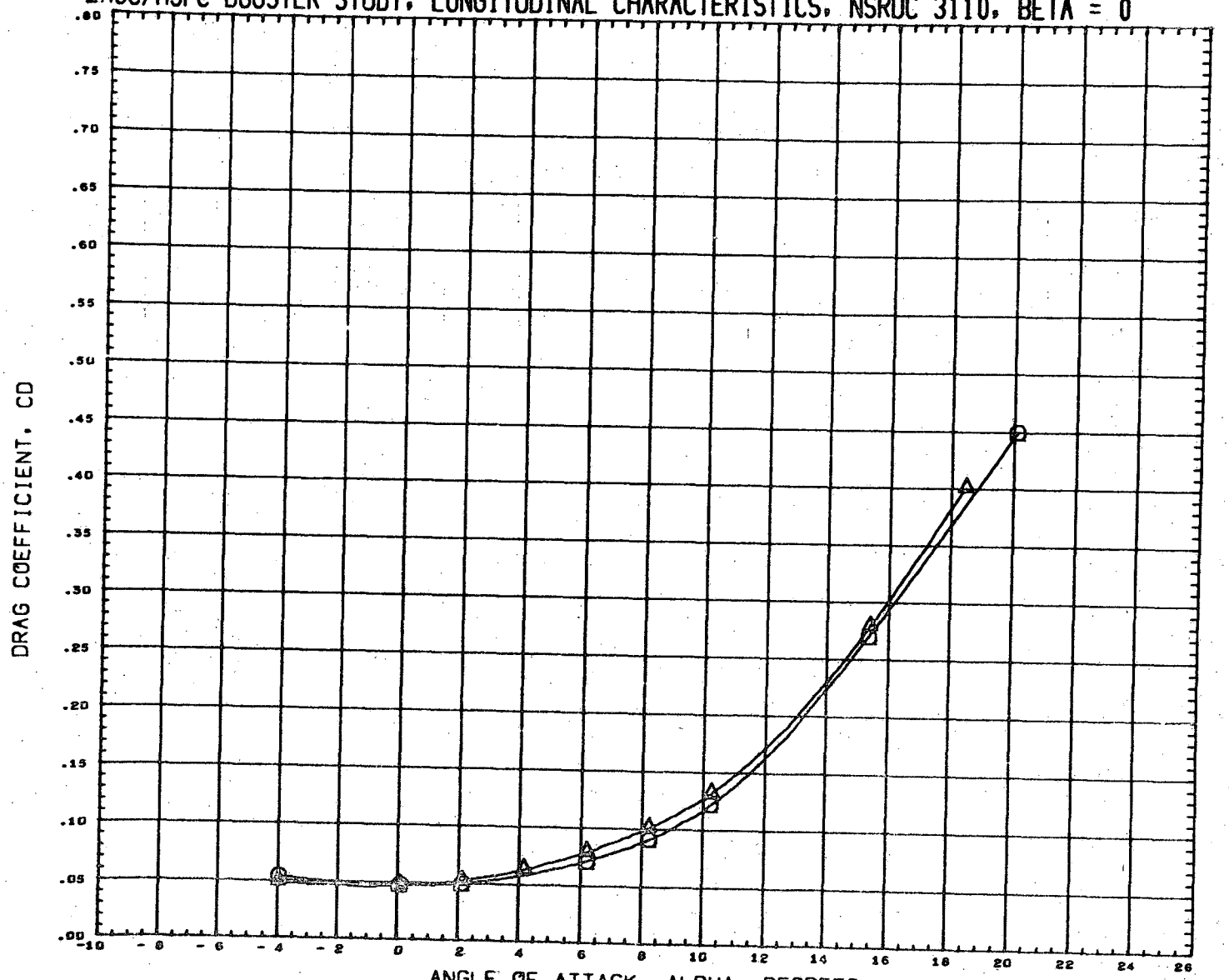
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

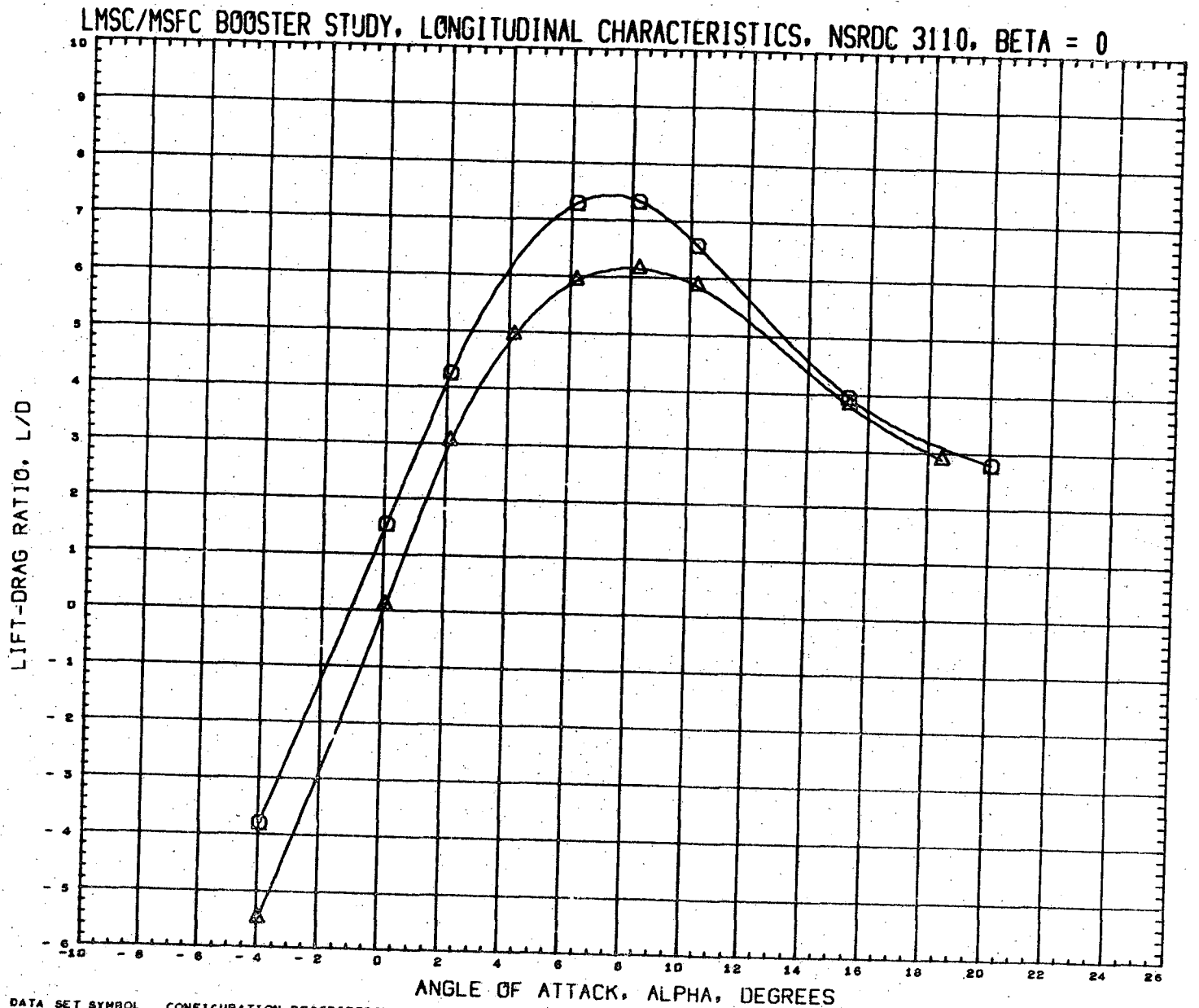


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2017)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

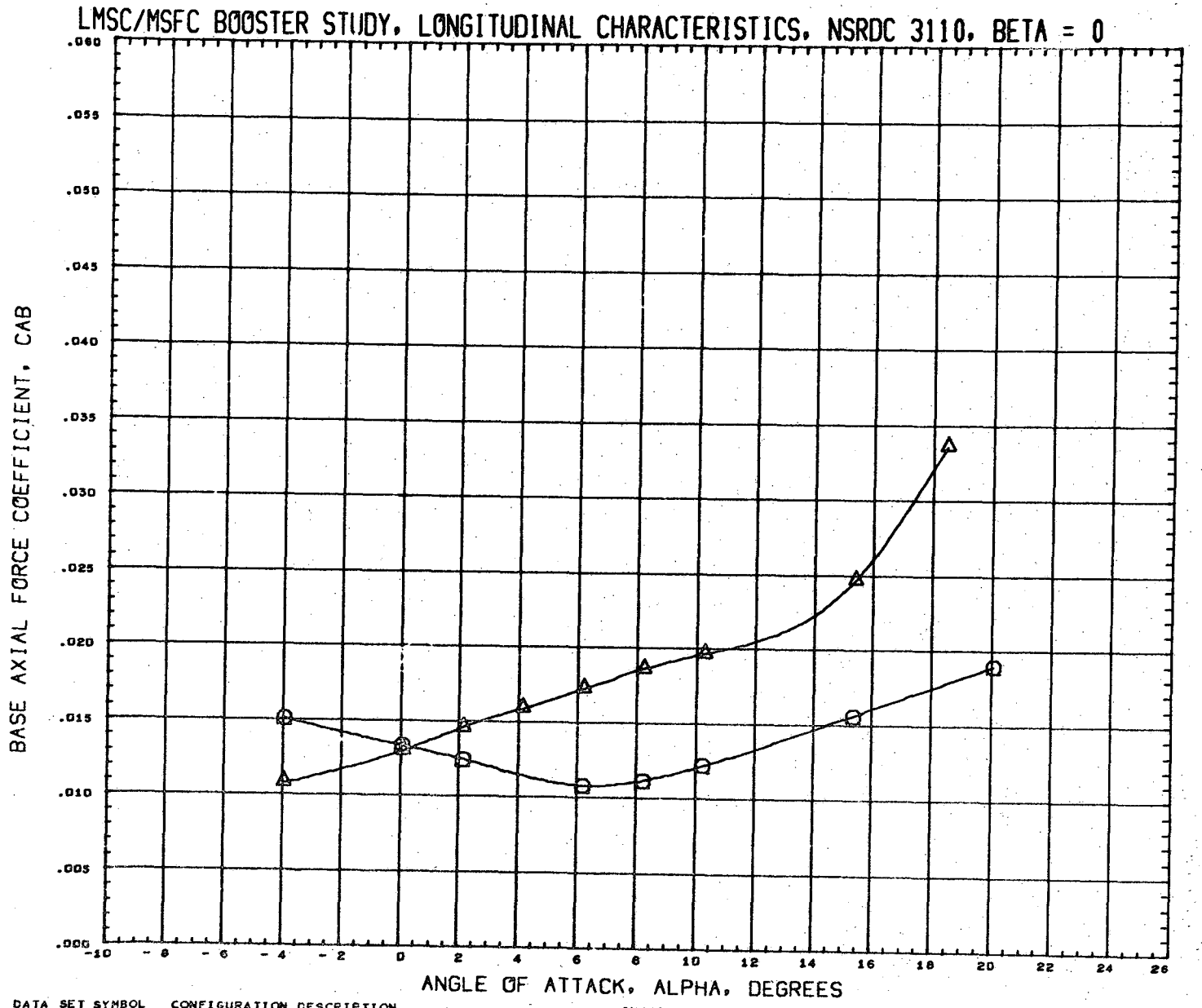
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2017)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

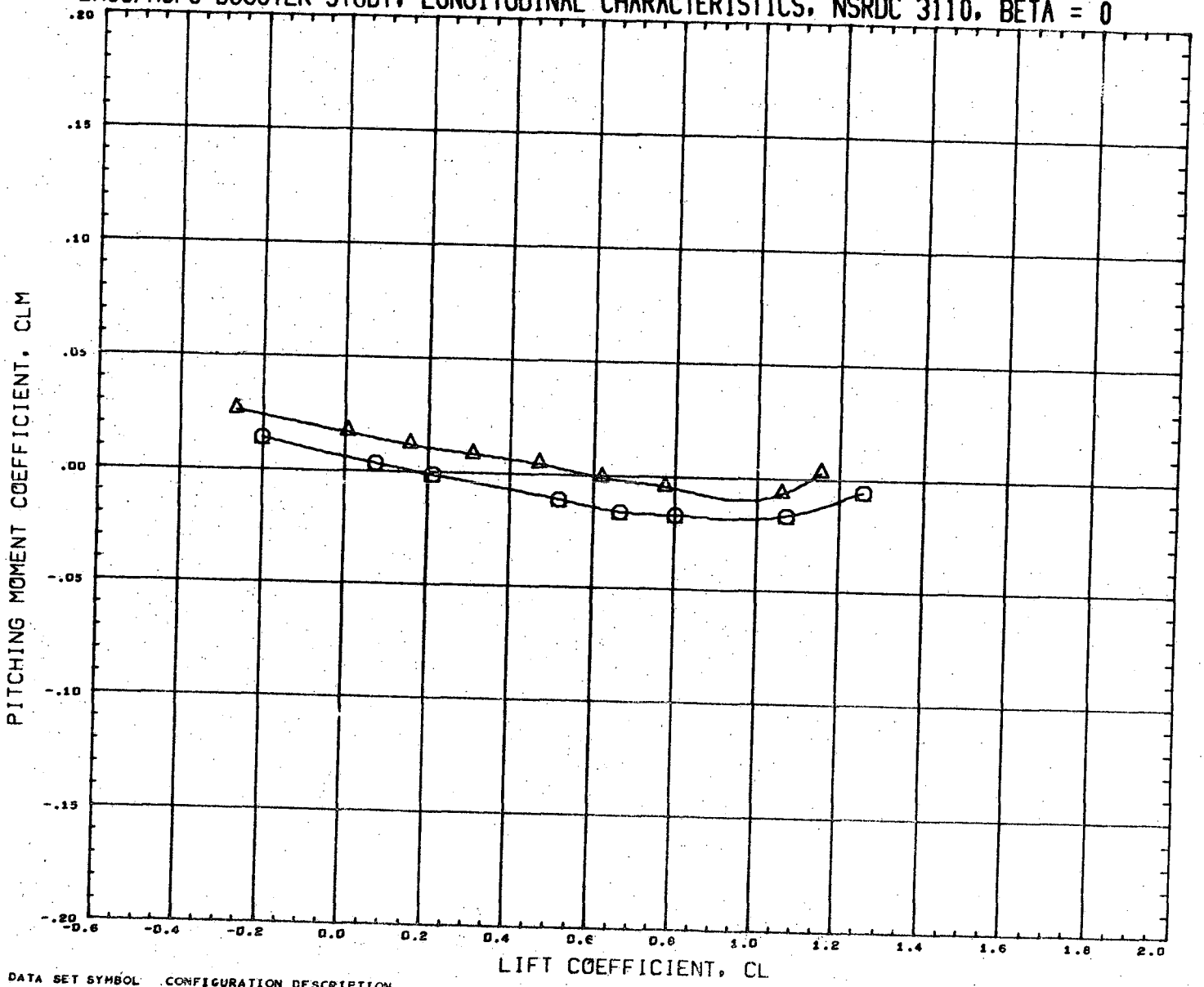


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2017)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2017)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

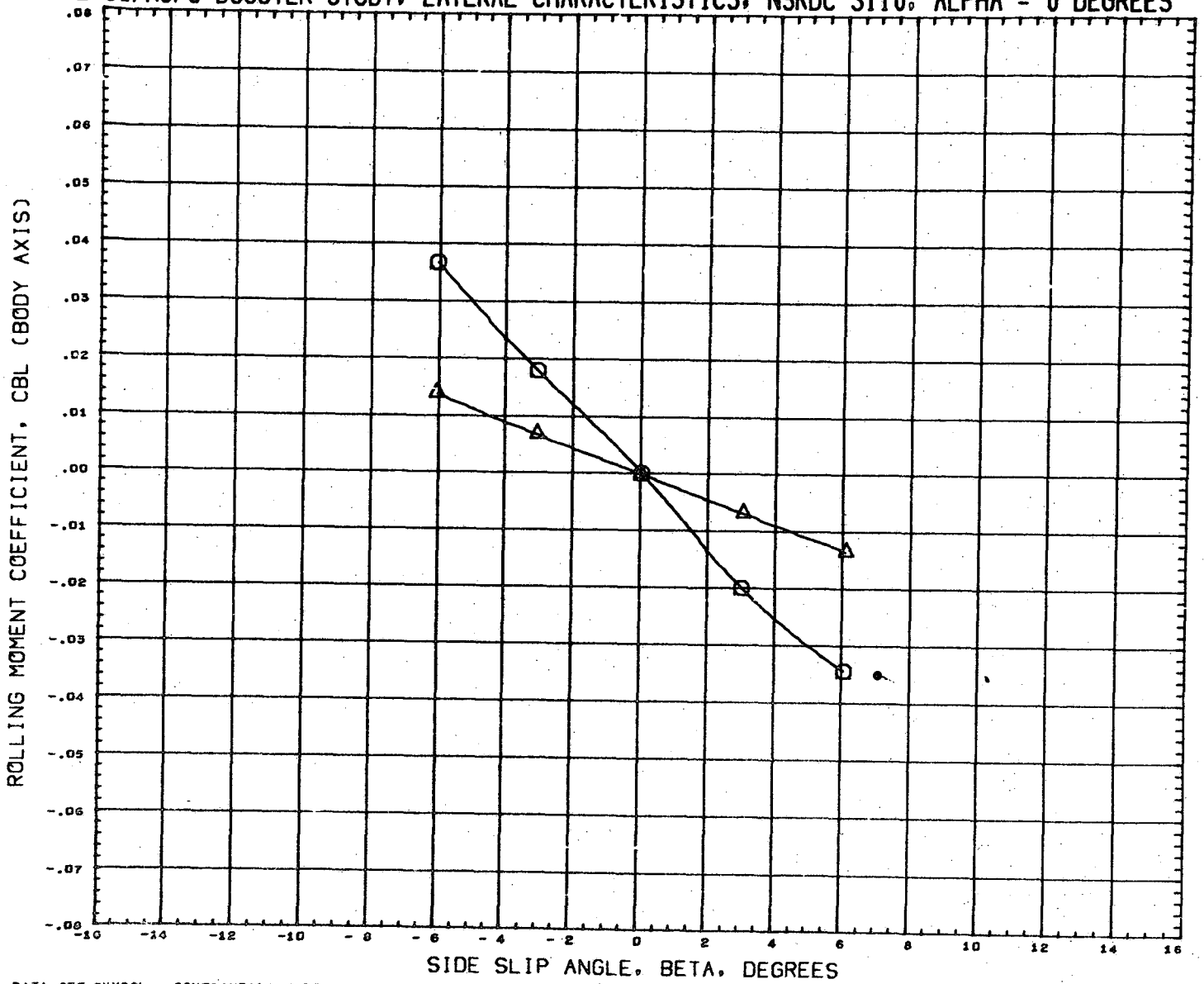
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

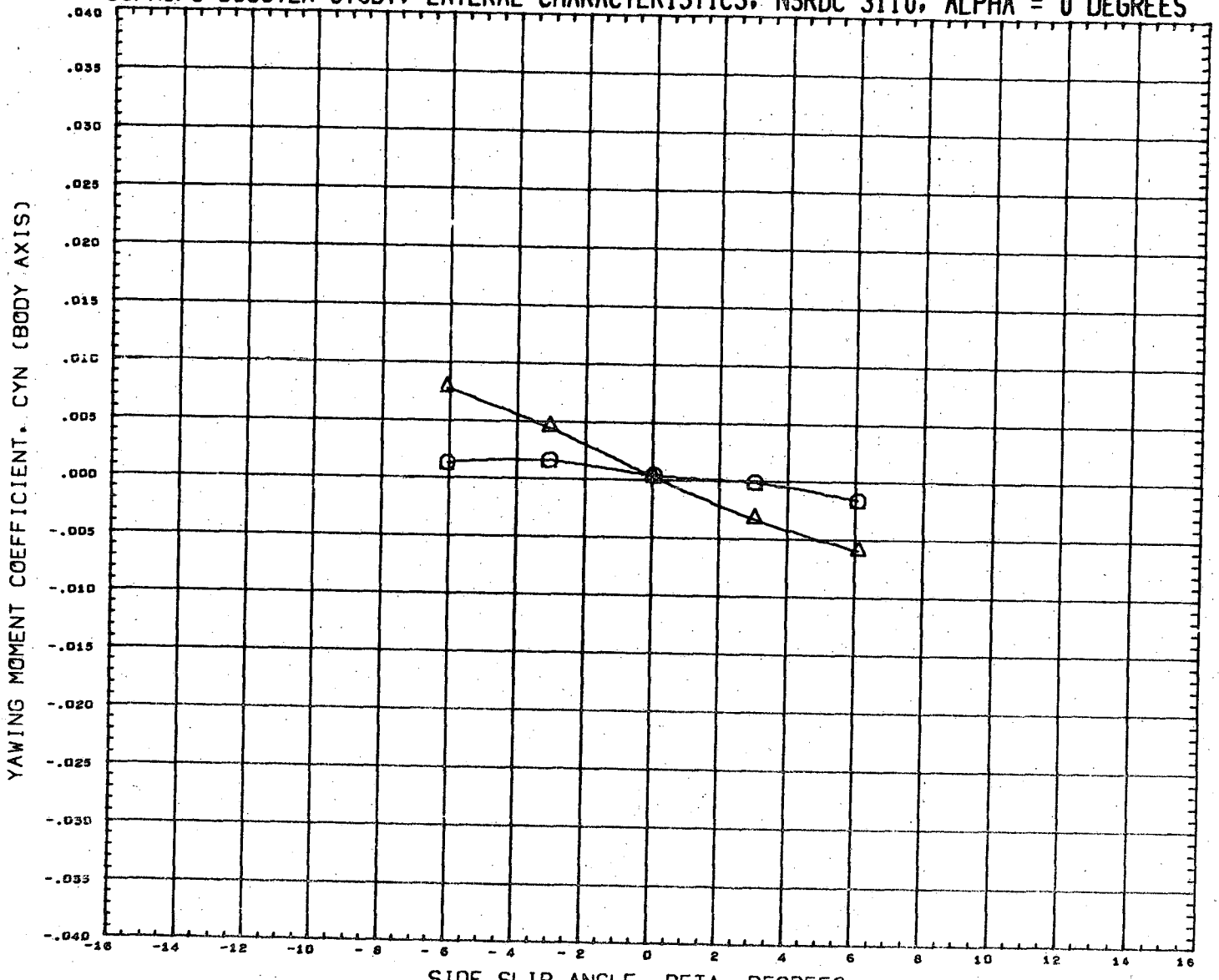


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2002)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2018)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

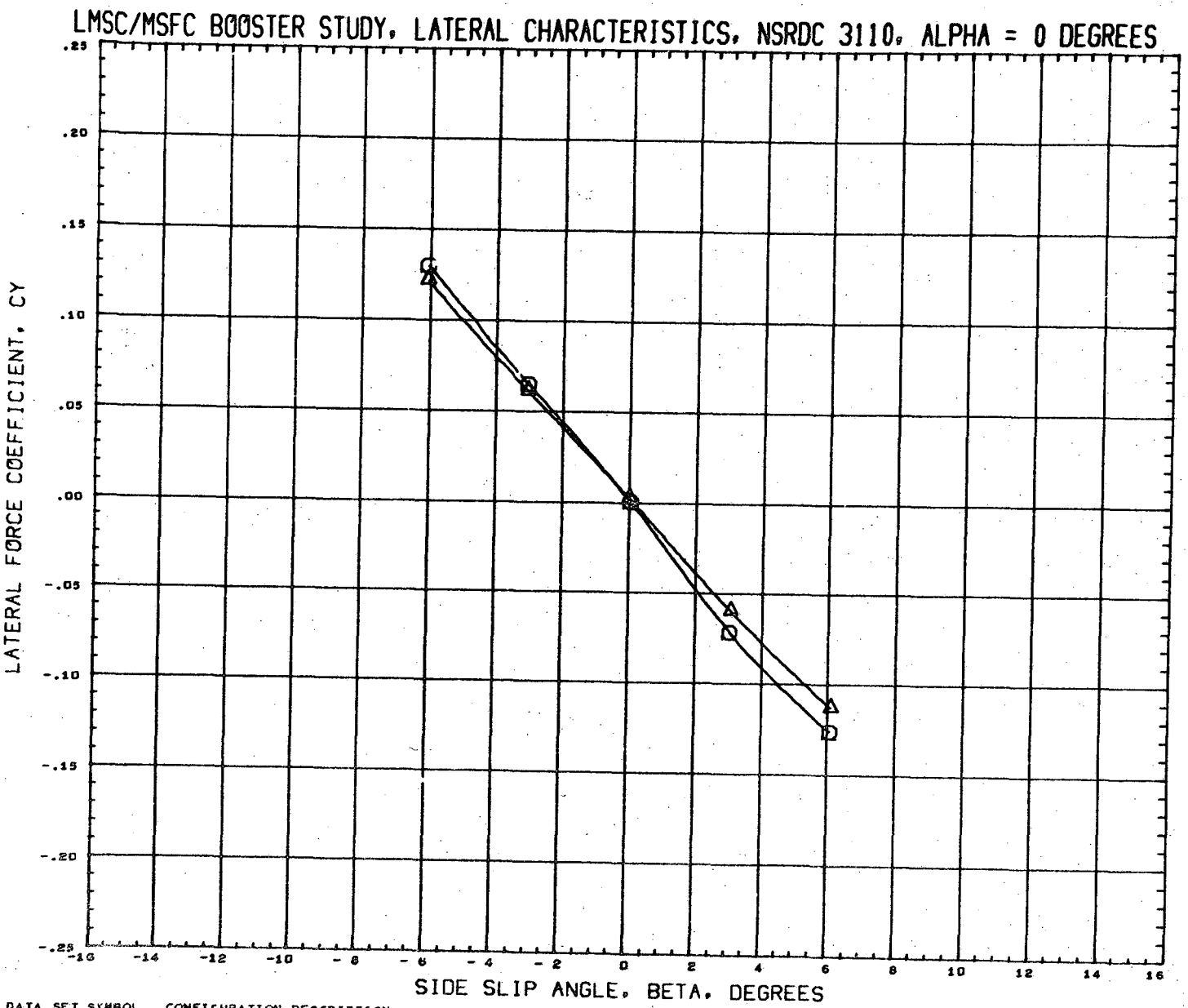
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2002)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2018)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.3P1

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4380	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



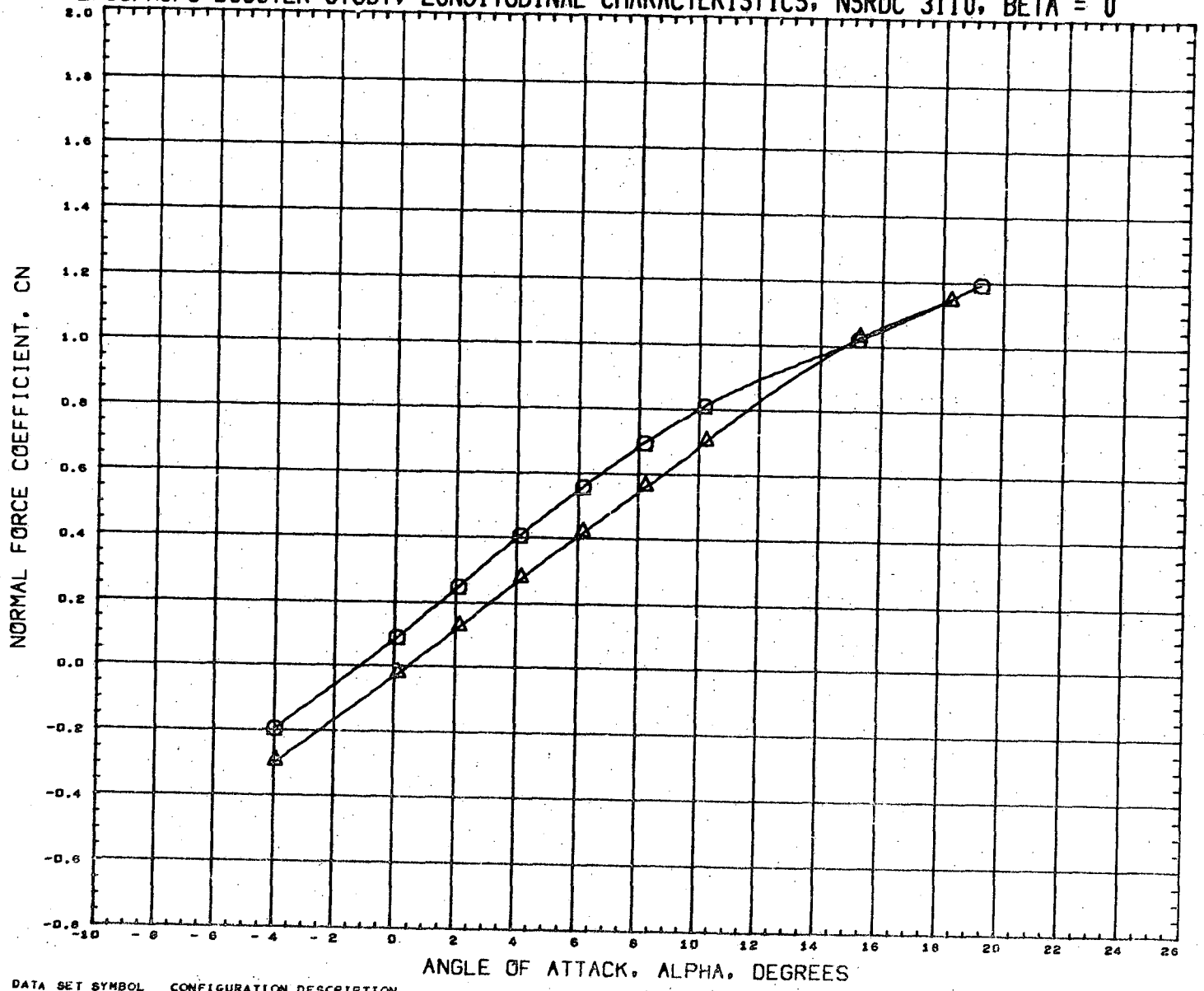
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2002)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2016)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2009)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2023)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

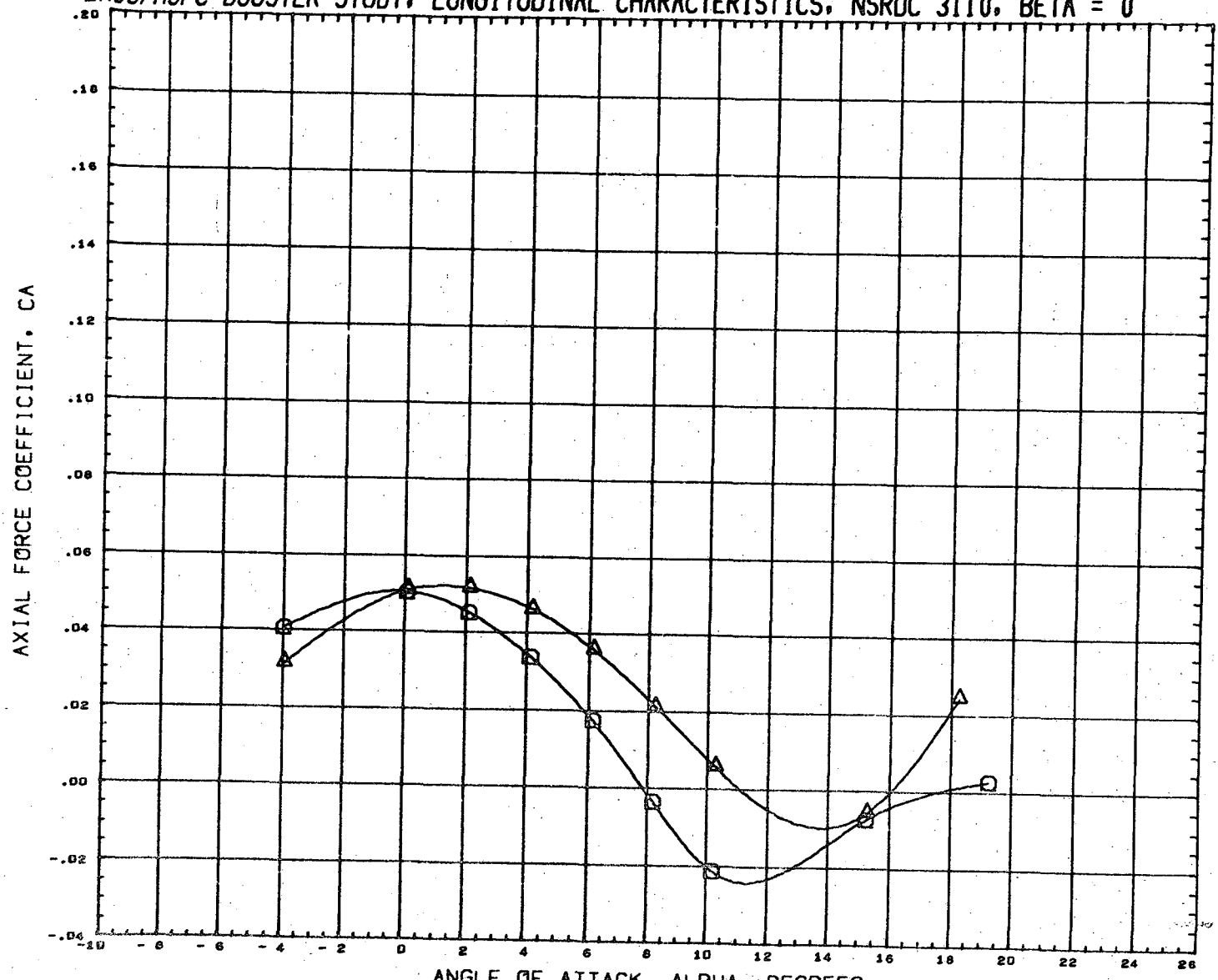
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

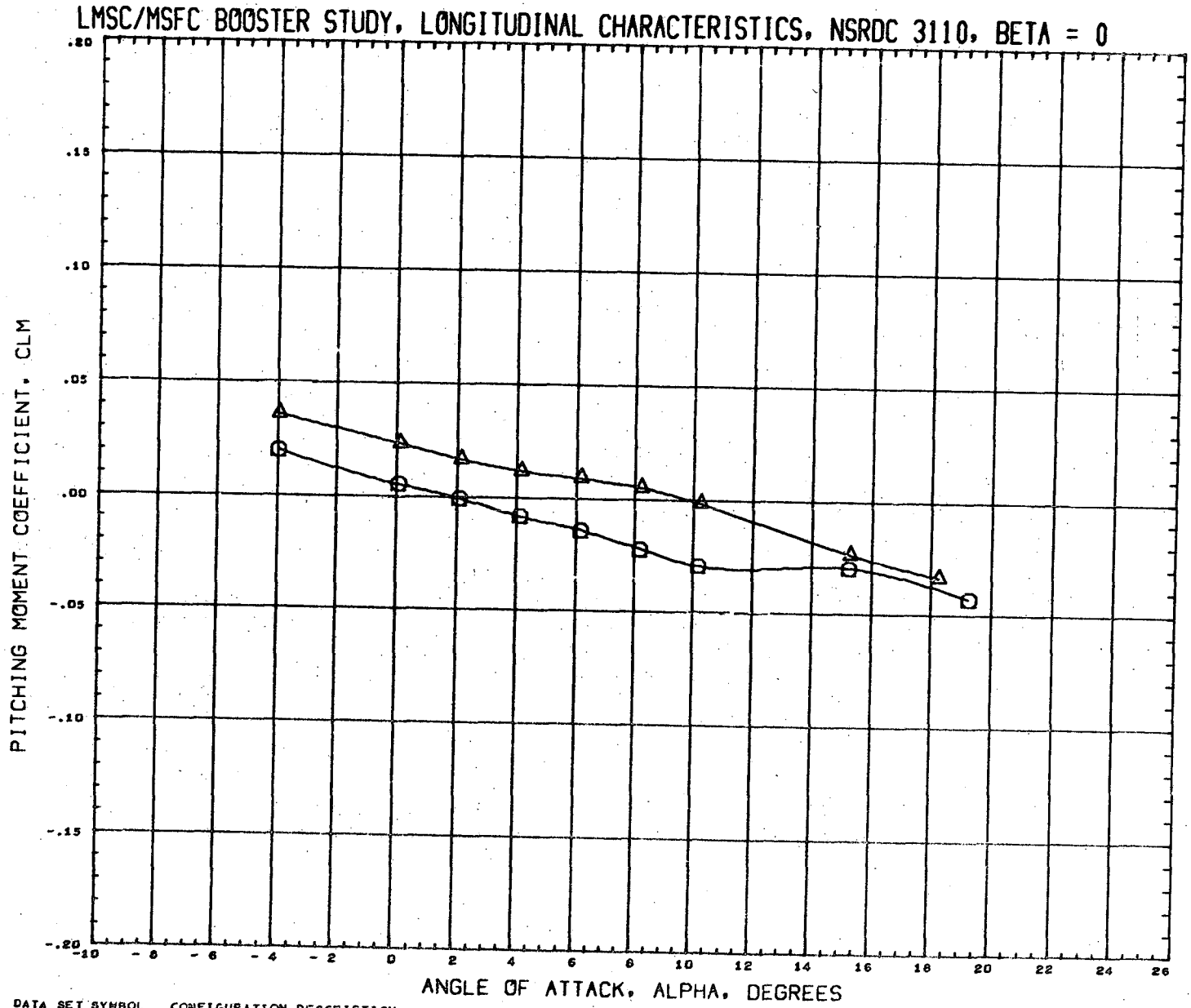
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2025)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

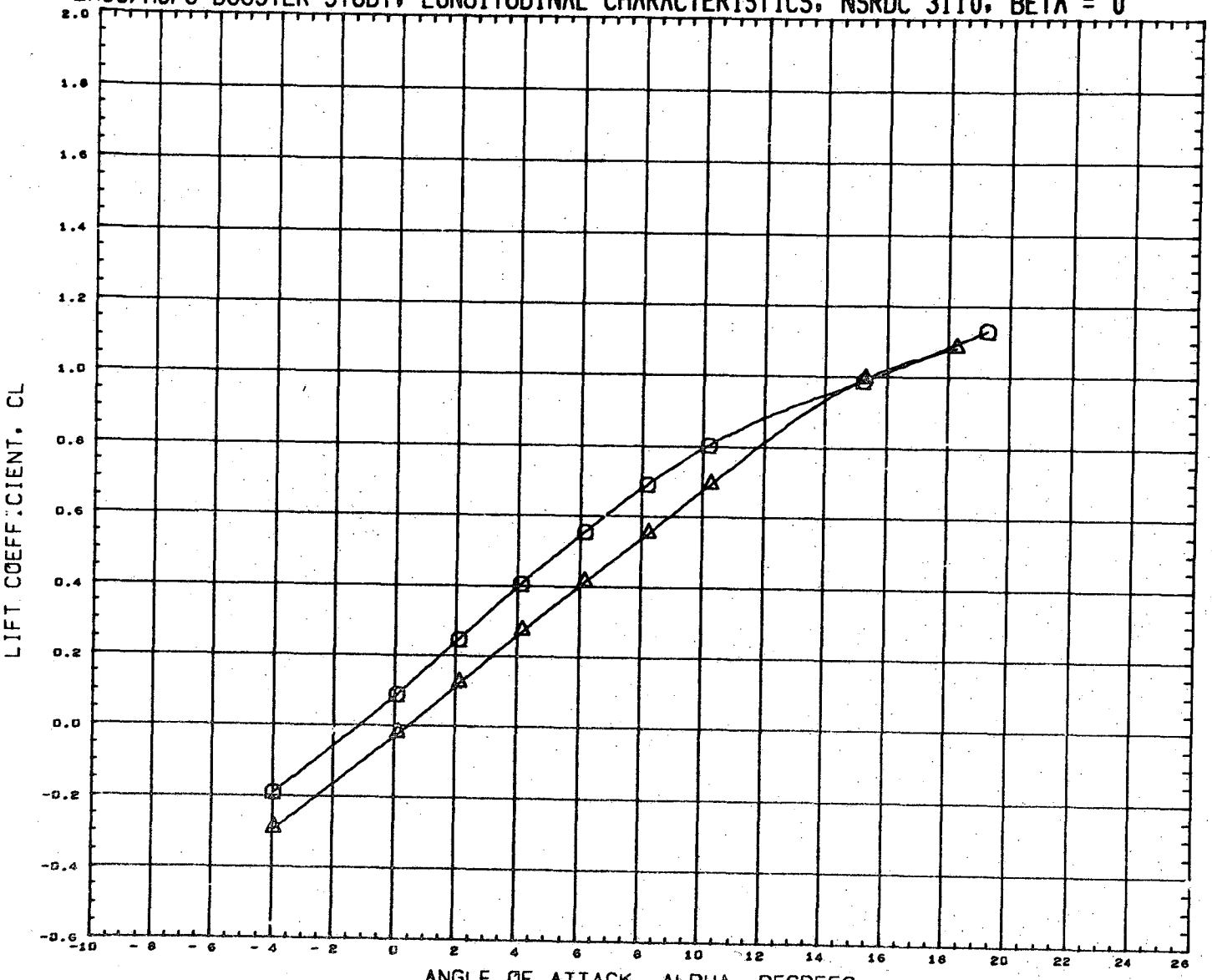


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2025)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

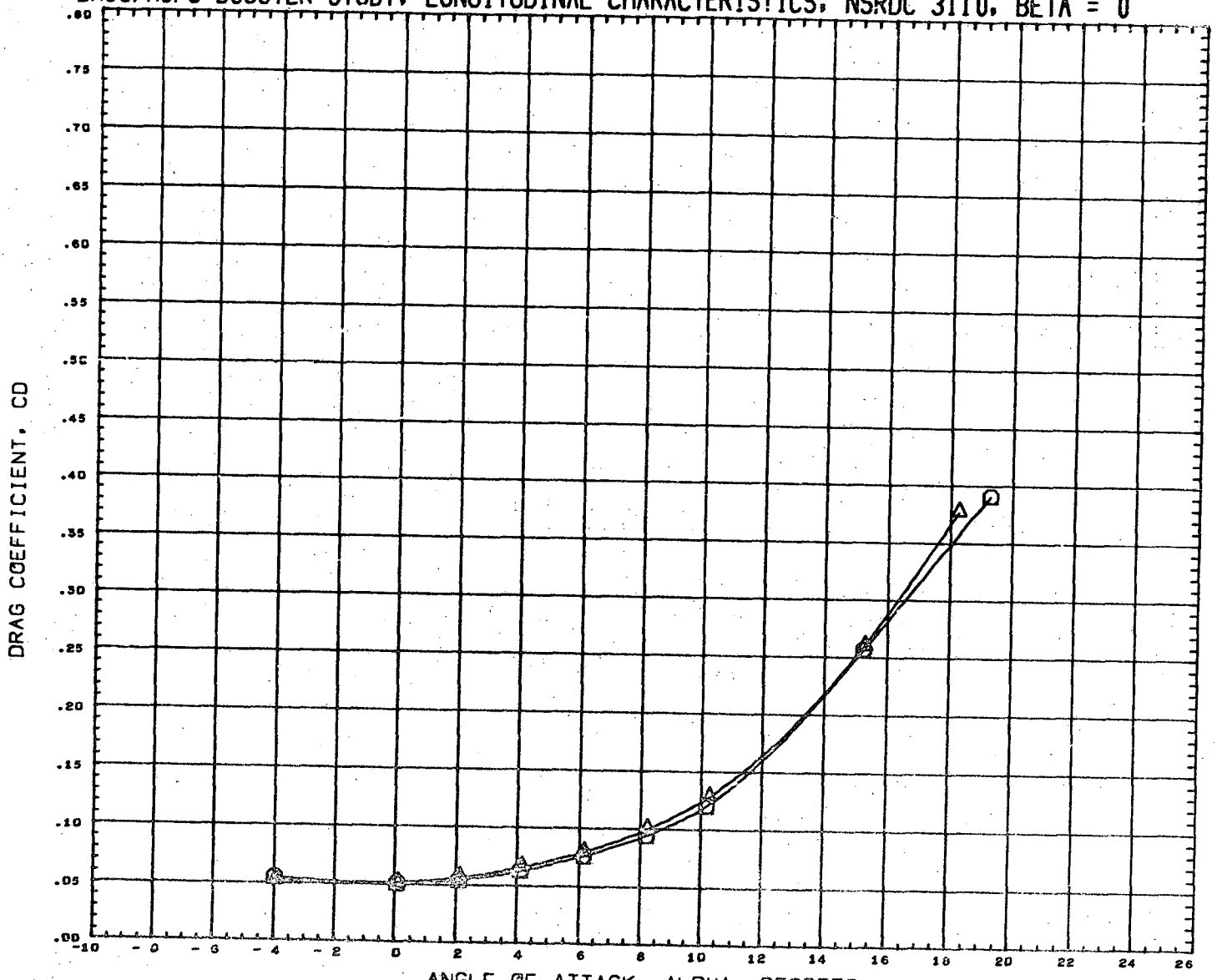


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2025)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

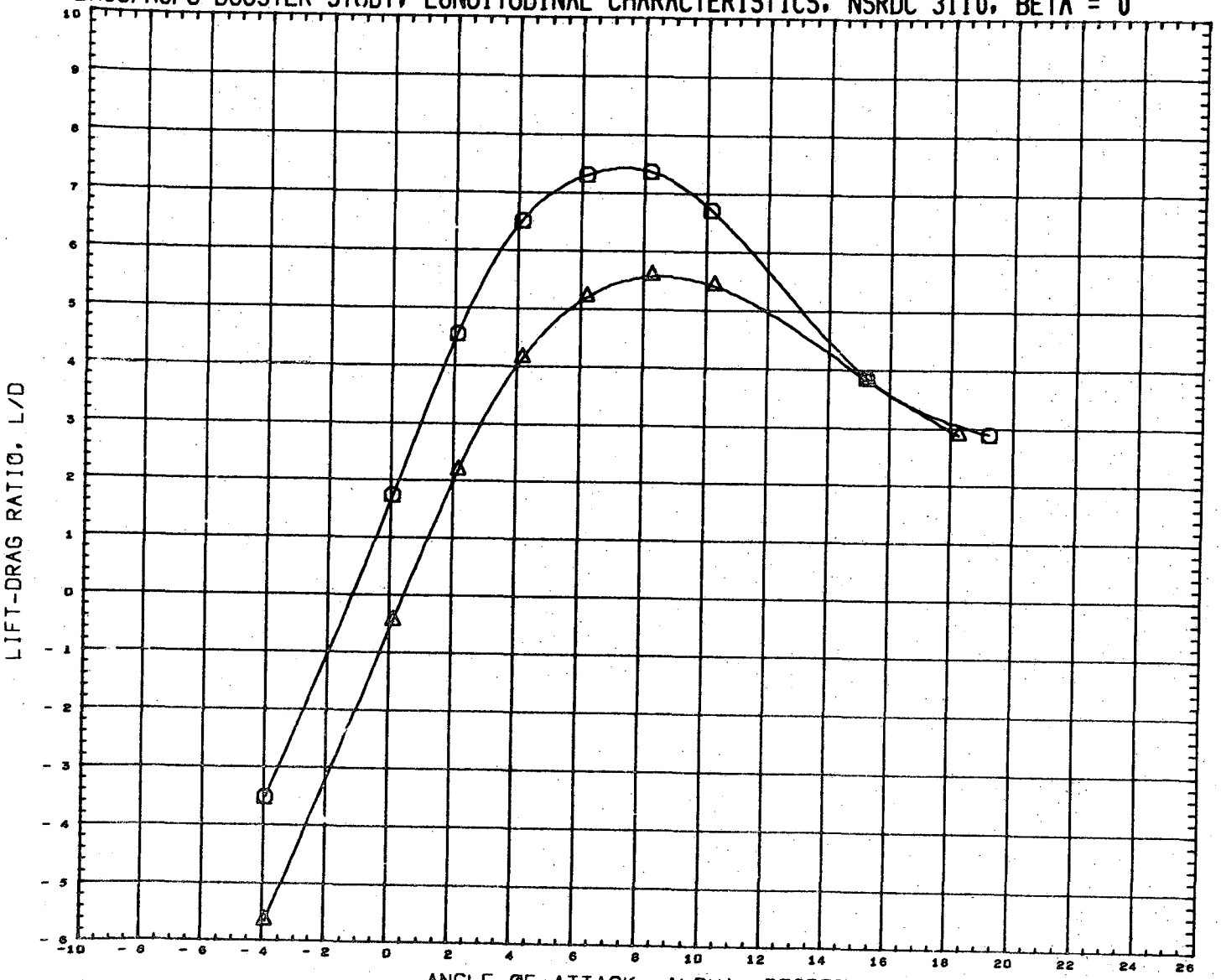


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2025)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

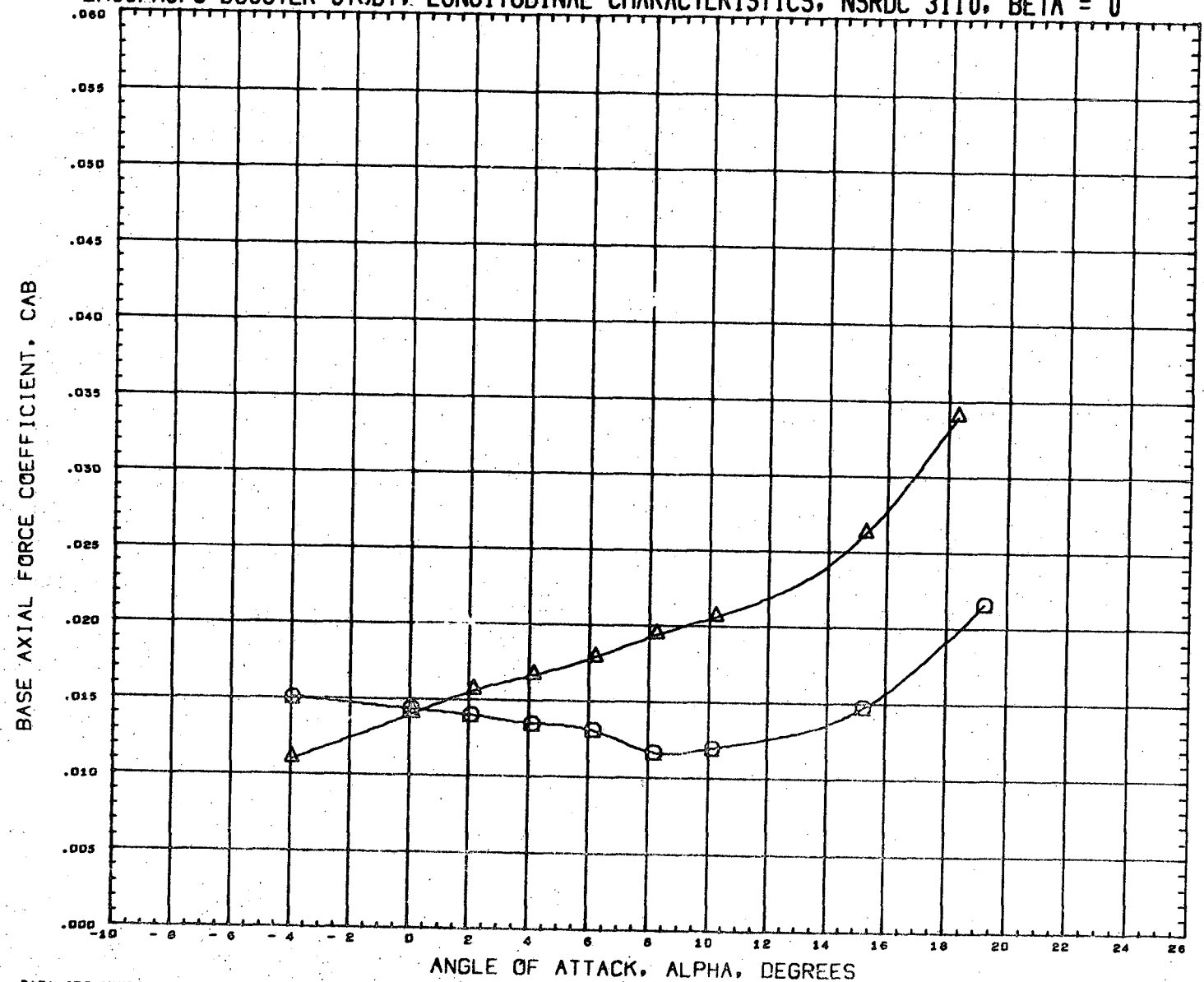


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2009)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2025)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØOSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

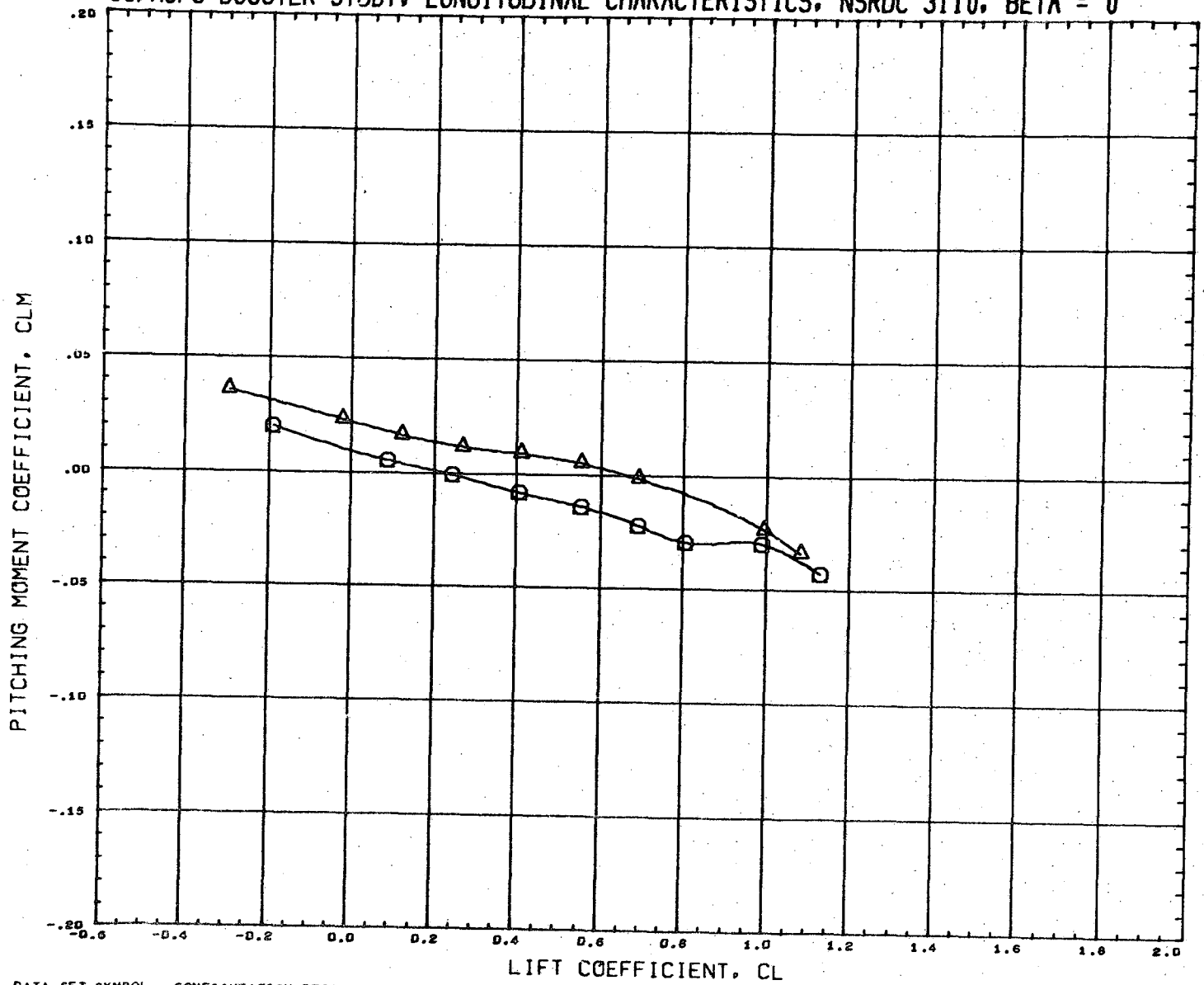


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2025)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

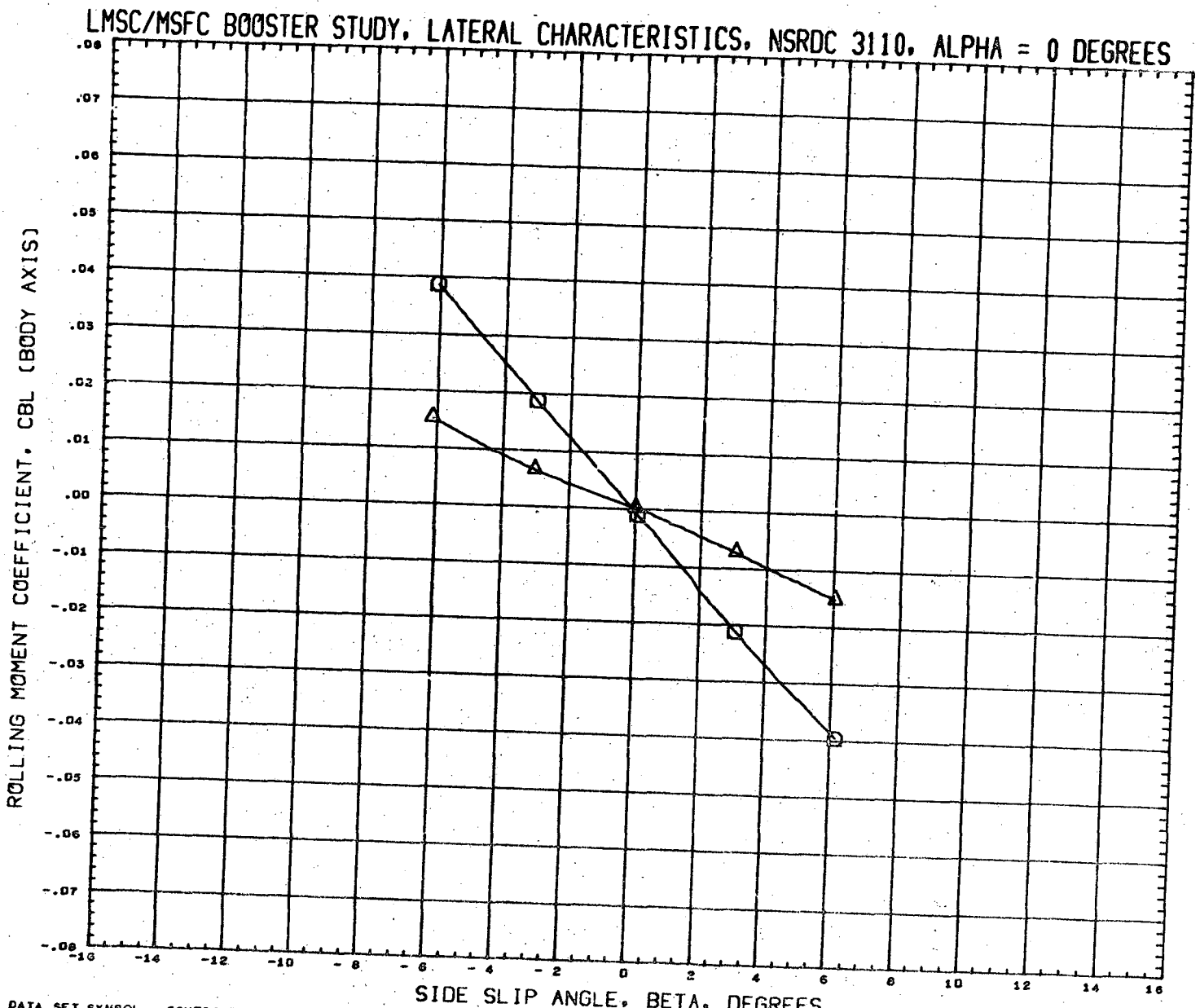


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2009)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2025)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

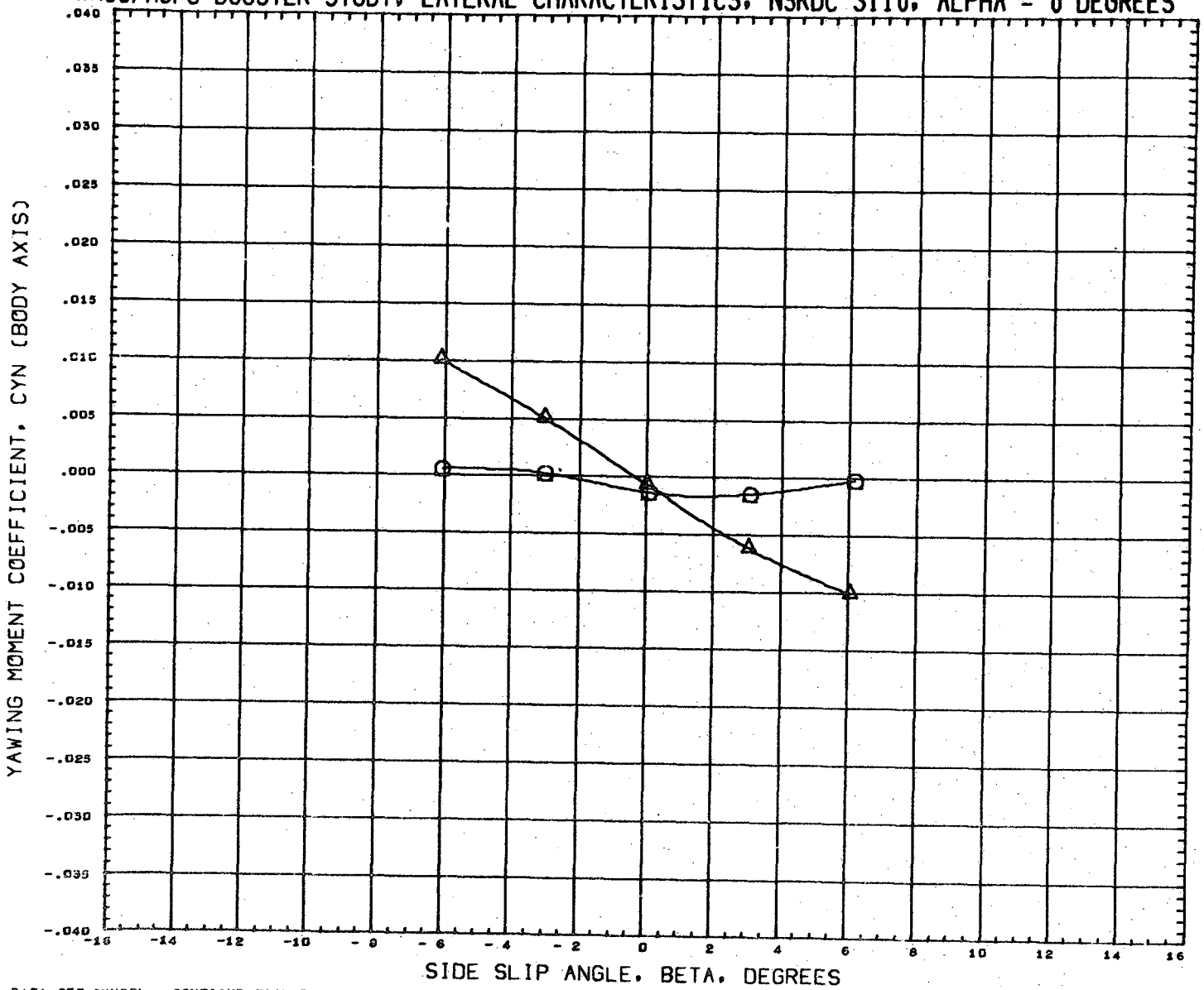


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2010)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2026)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

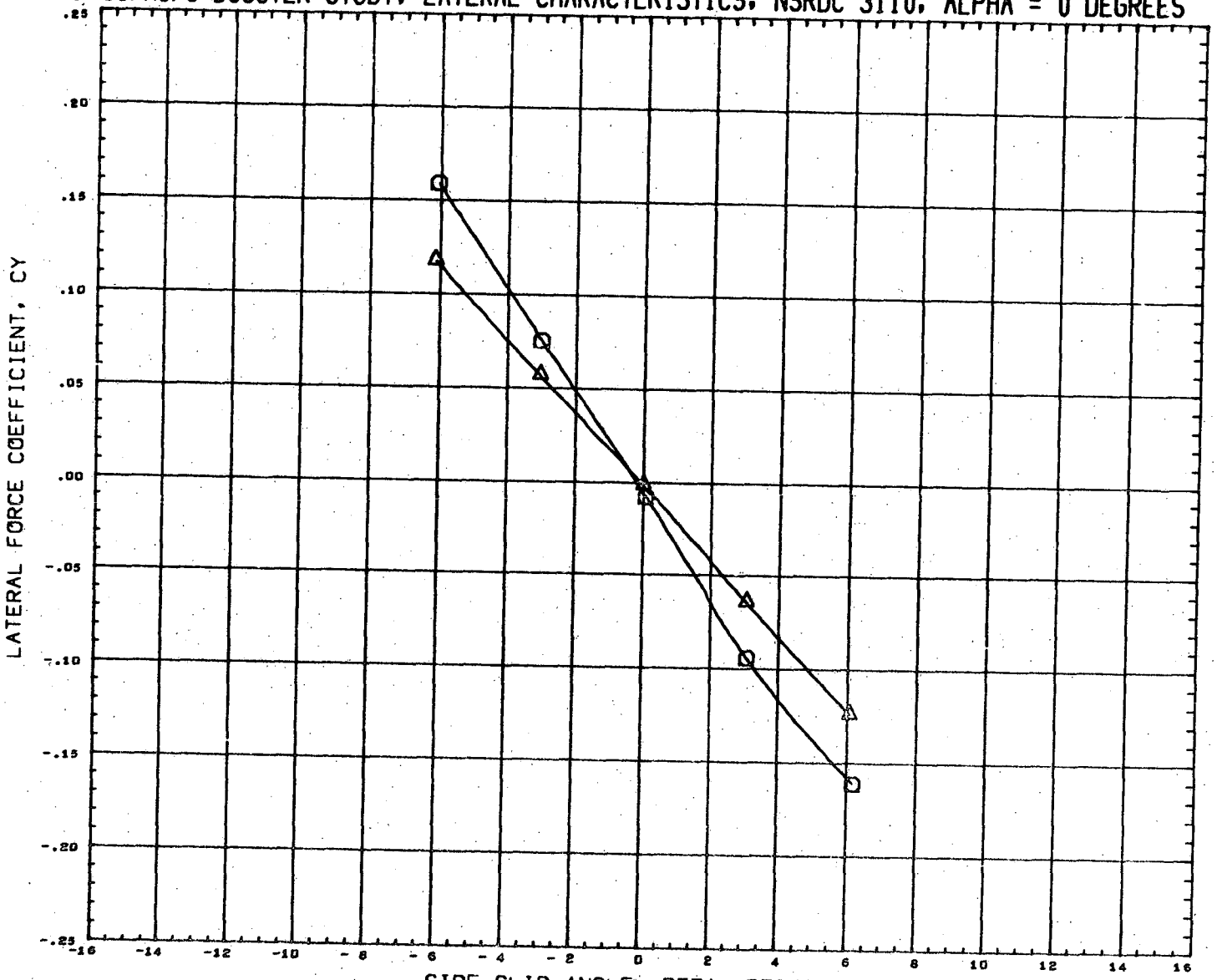


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2010)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2026)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.302

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

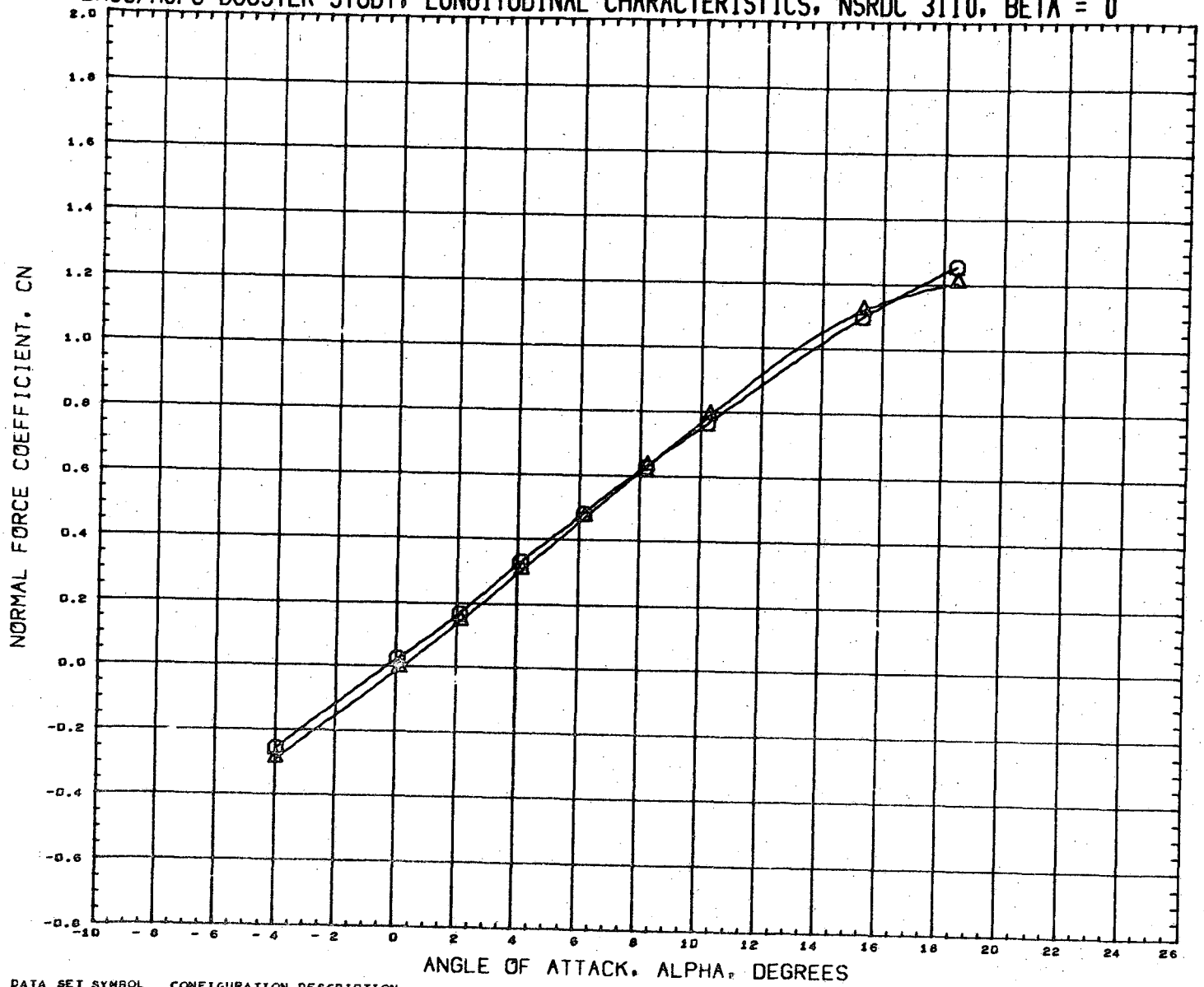


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2010)	○	N3RDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2026)	△	N3RDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



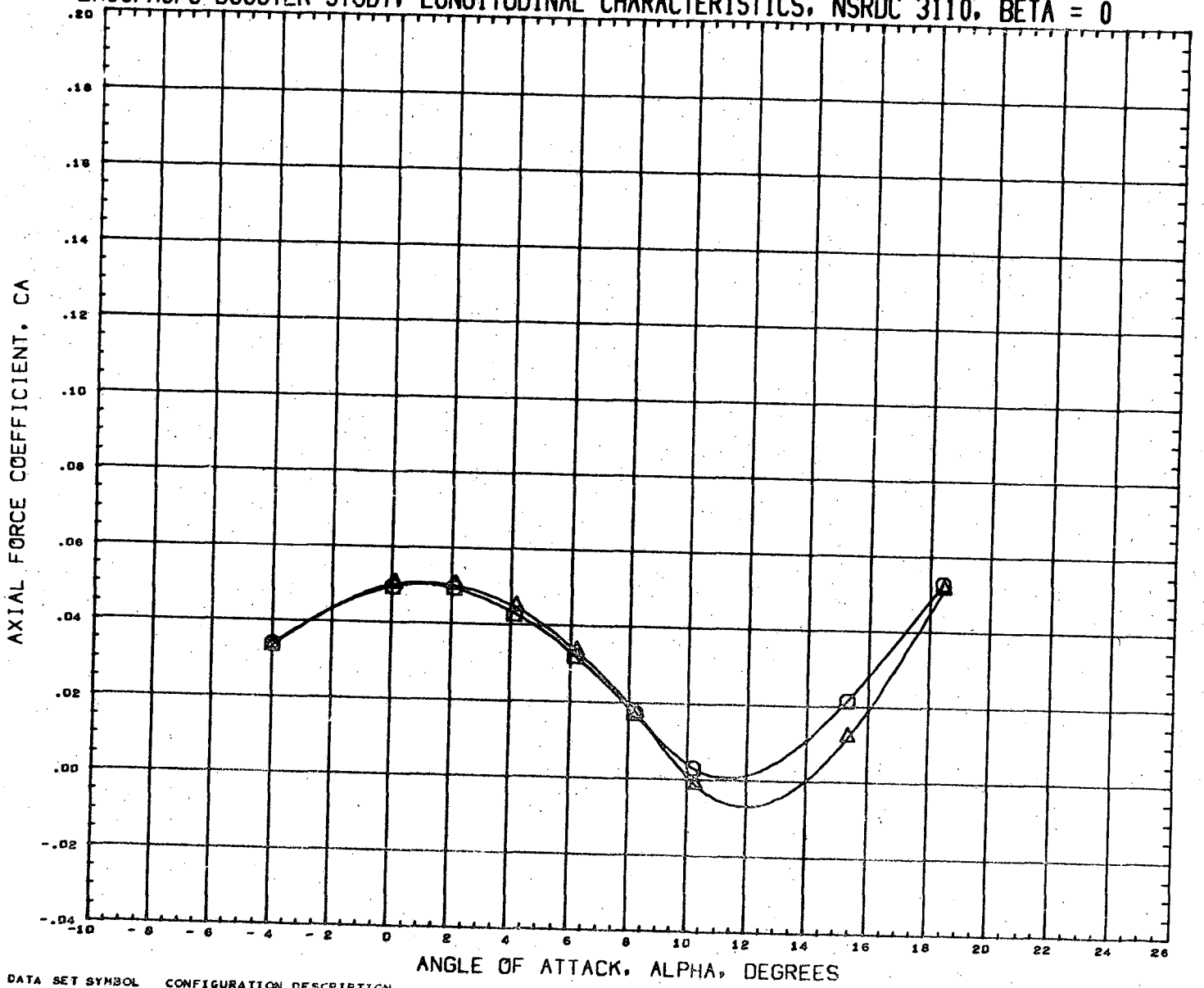
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2193)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2209)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

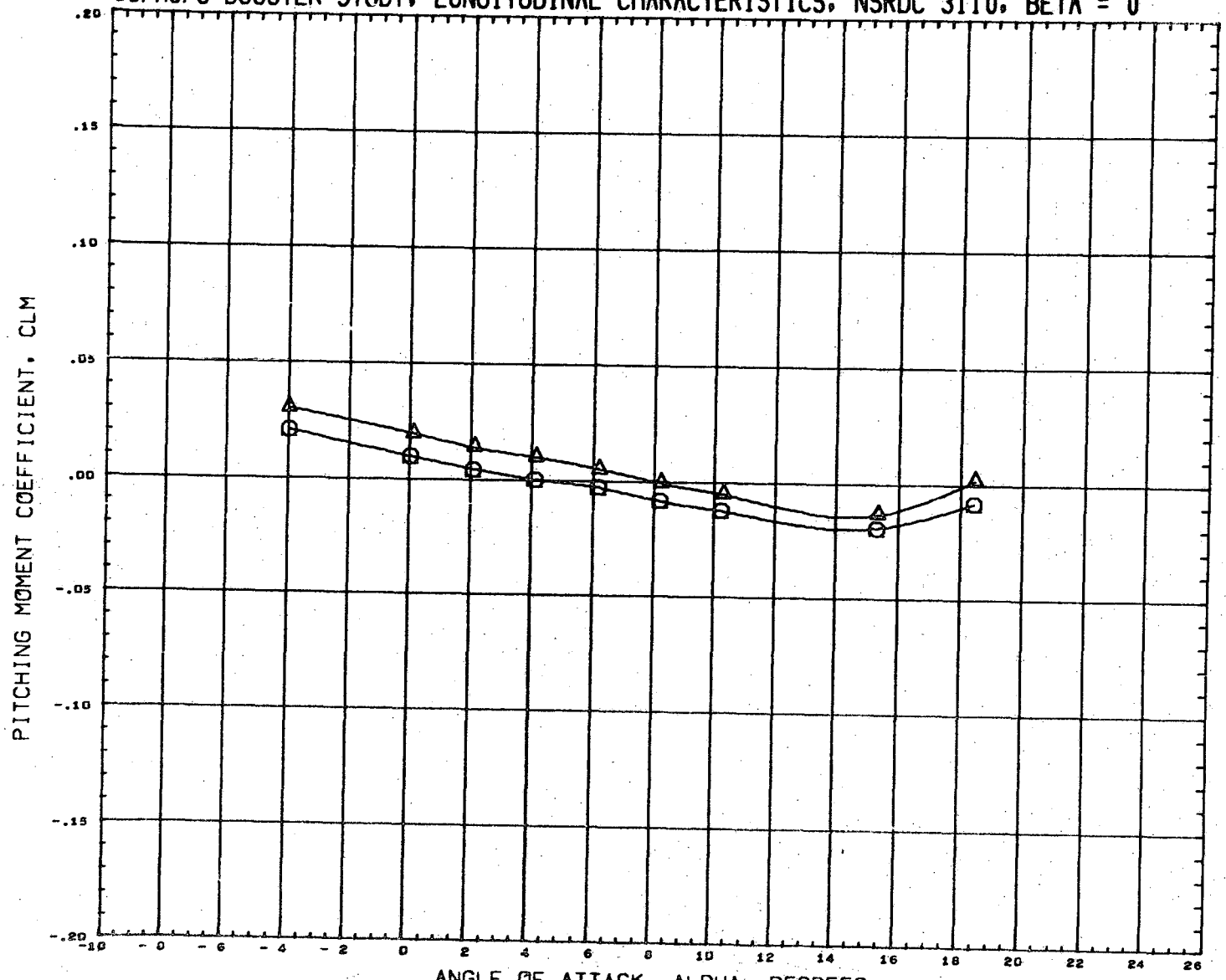


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2193) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000
(RN2209) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

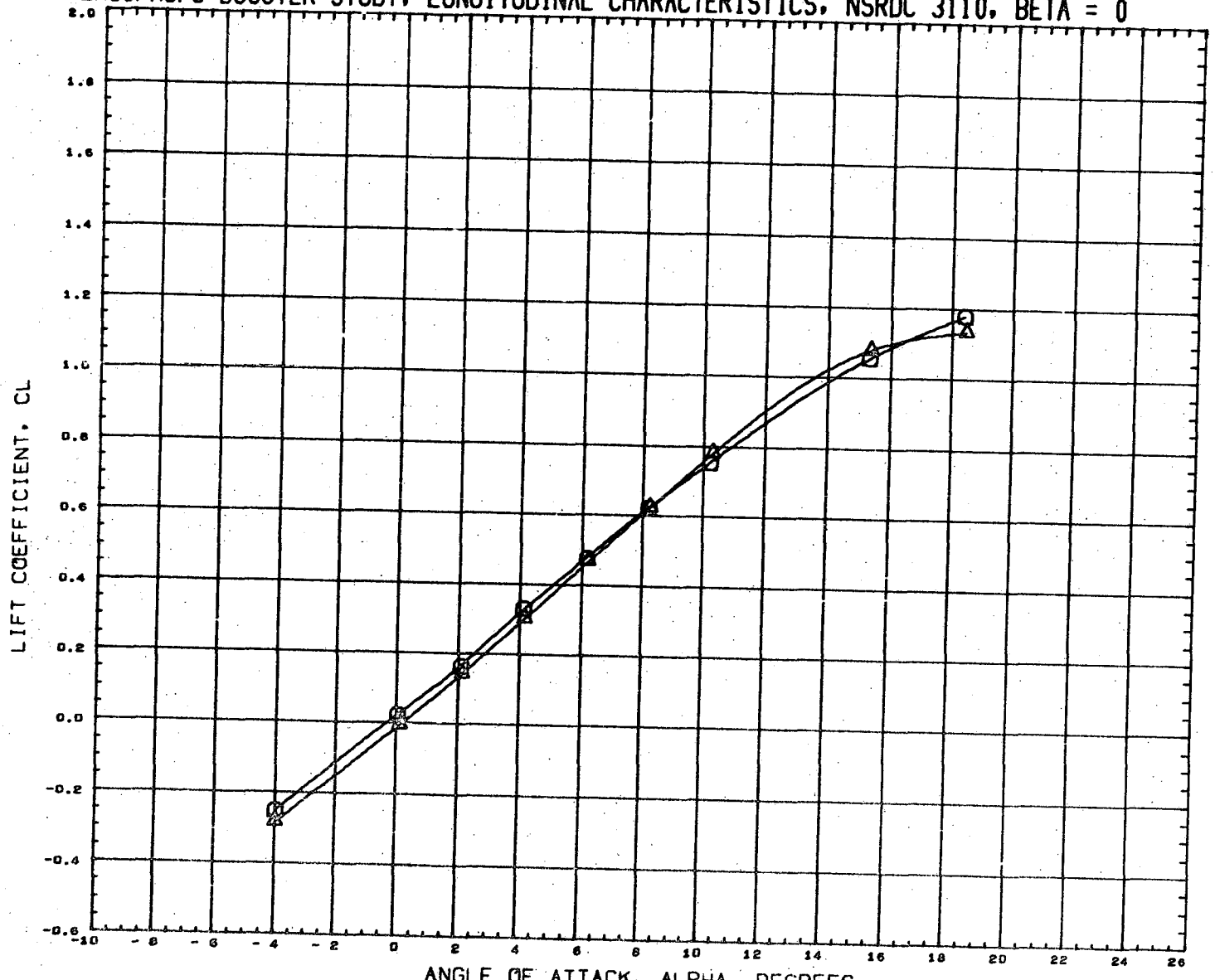


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2193)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000
(RN2209)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



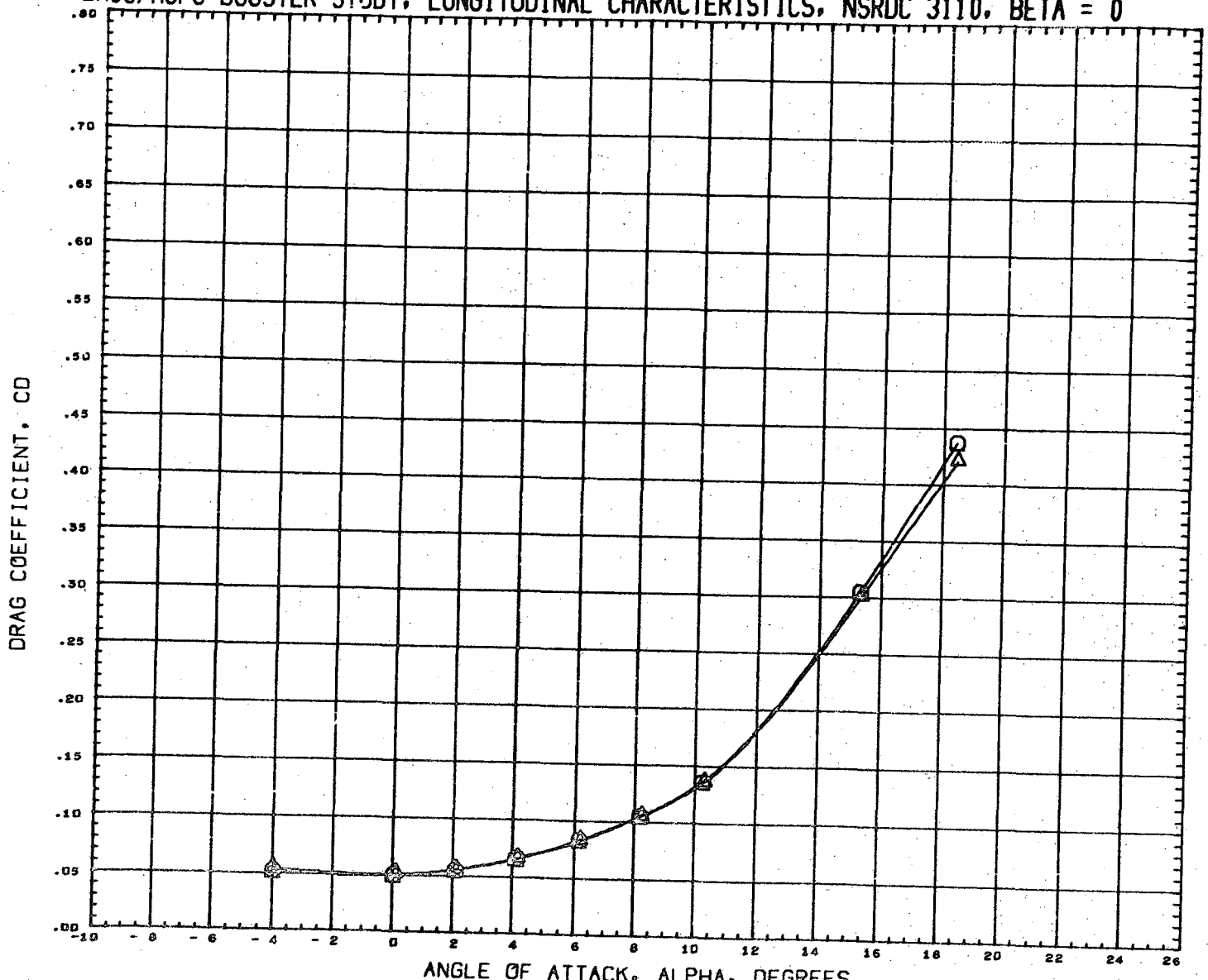
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2193)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000
(RN2209)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



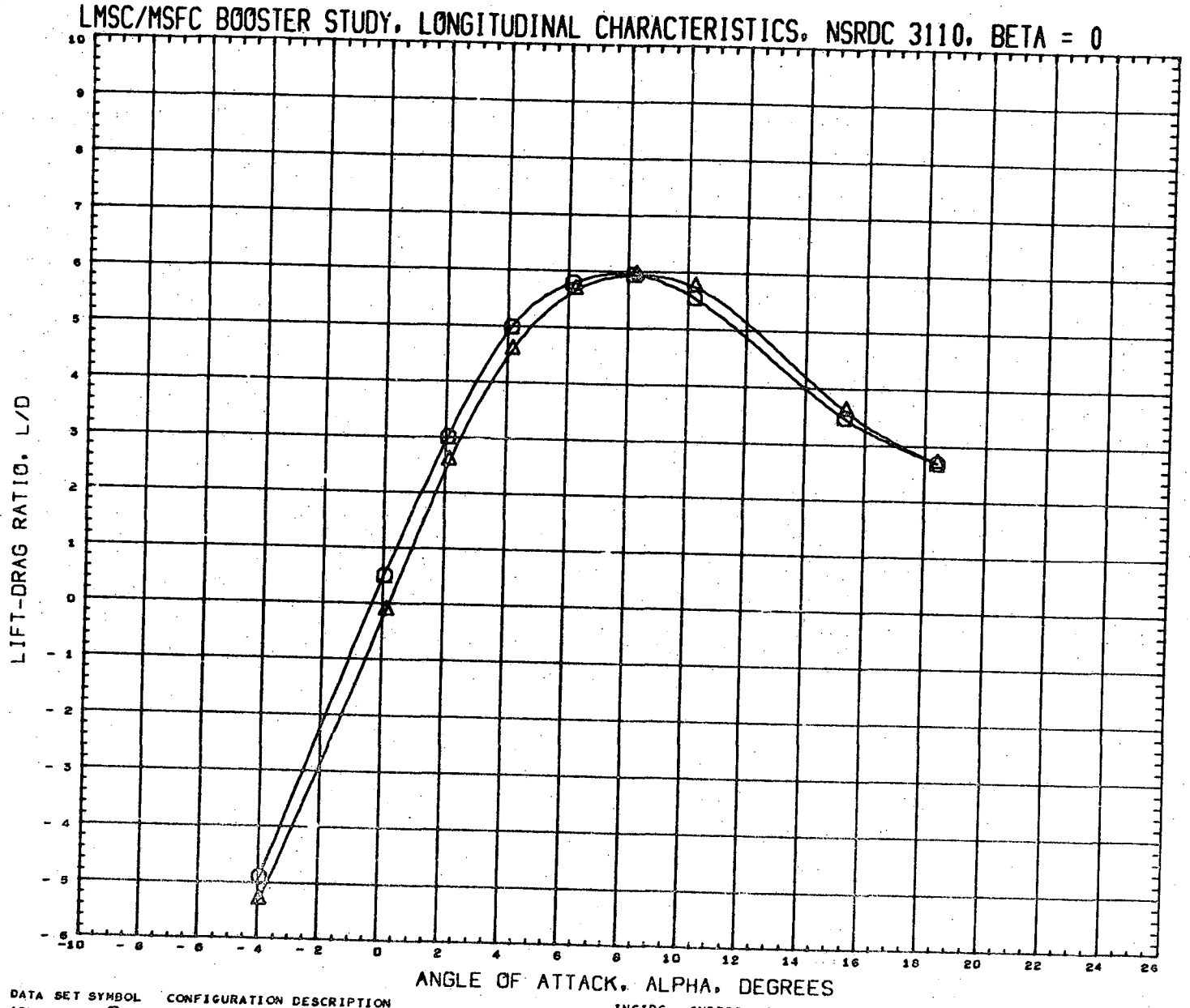
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2193)	Q	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2209)	Δ	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

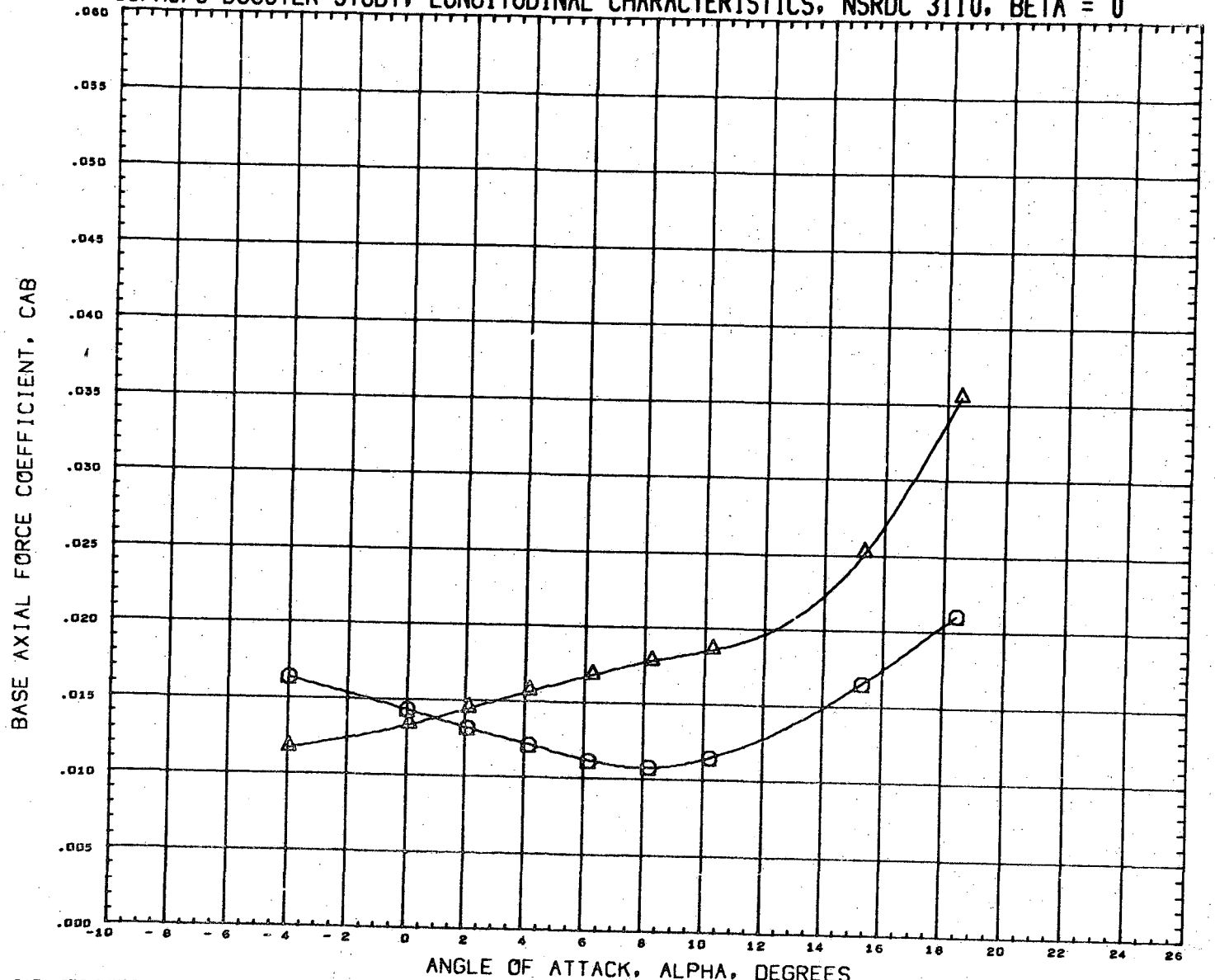


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2193)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000
(RN2209)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

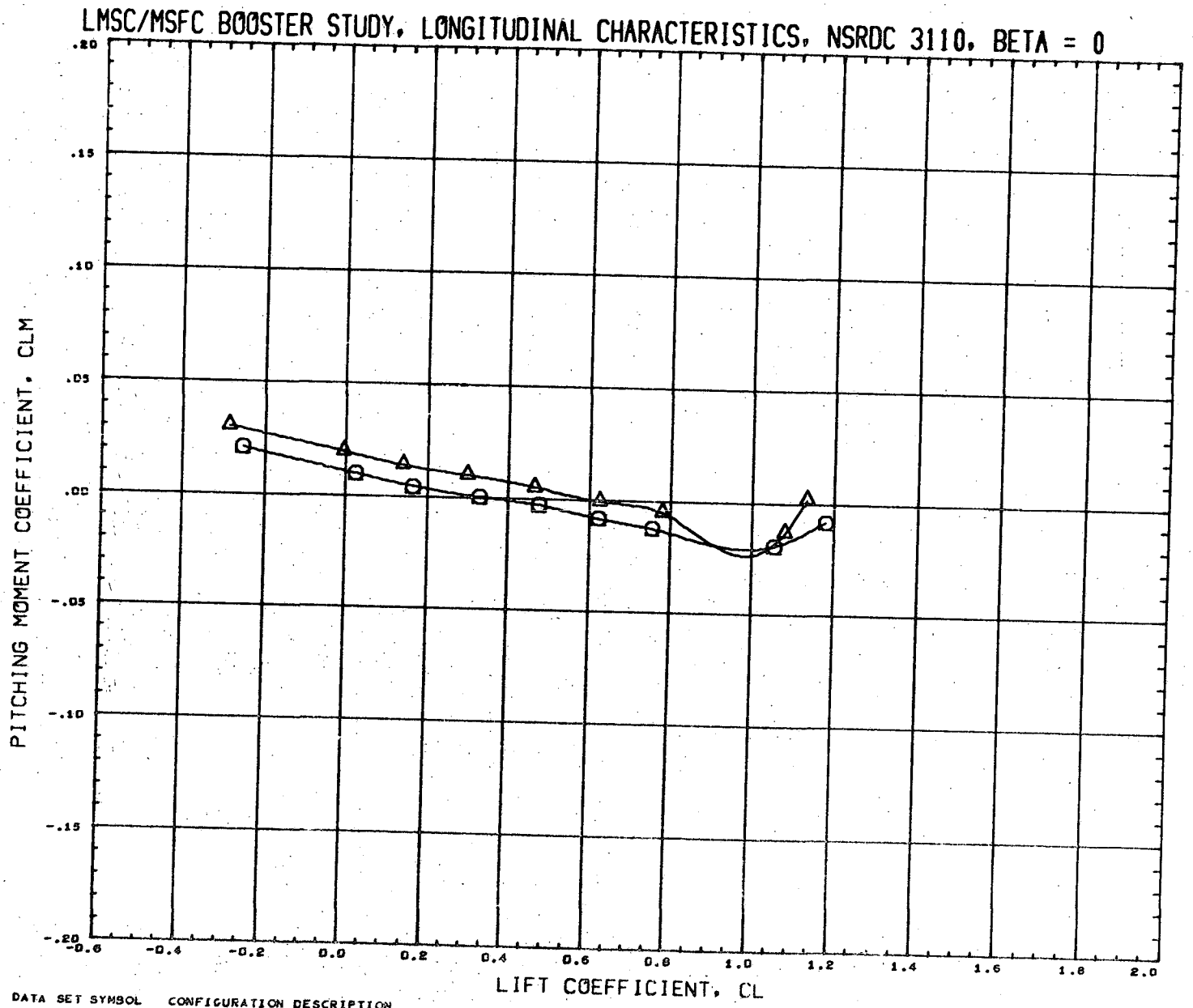


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2193)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000
(RN2209)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

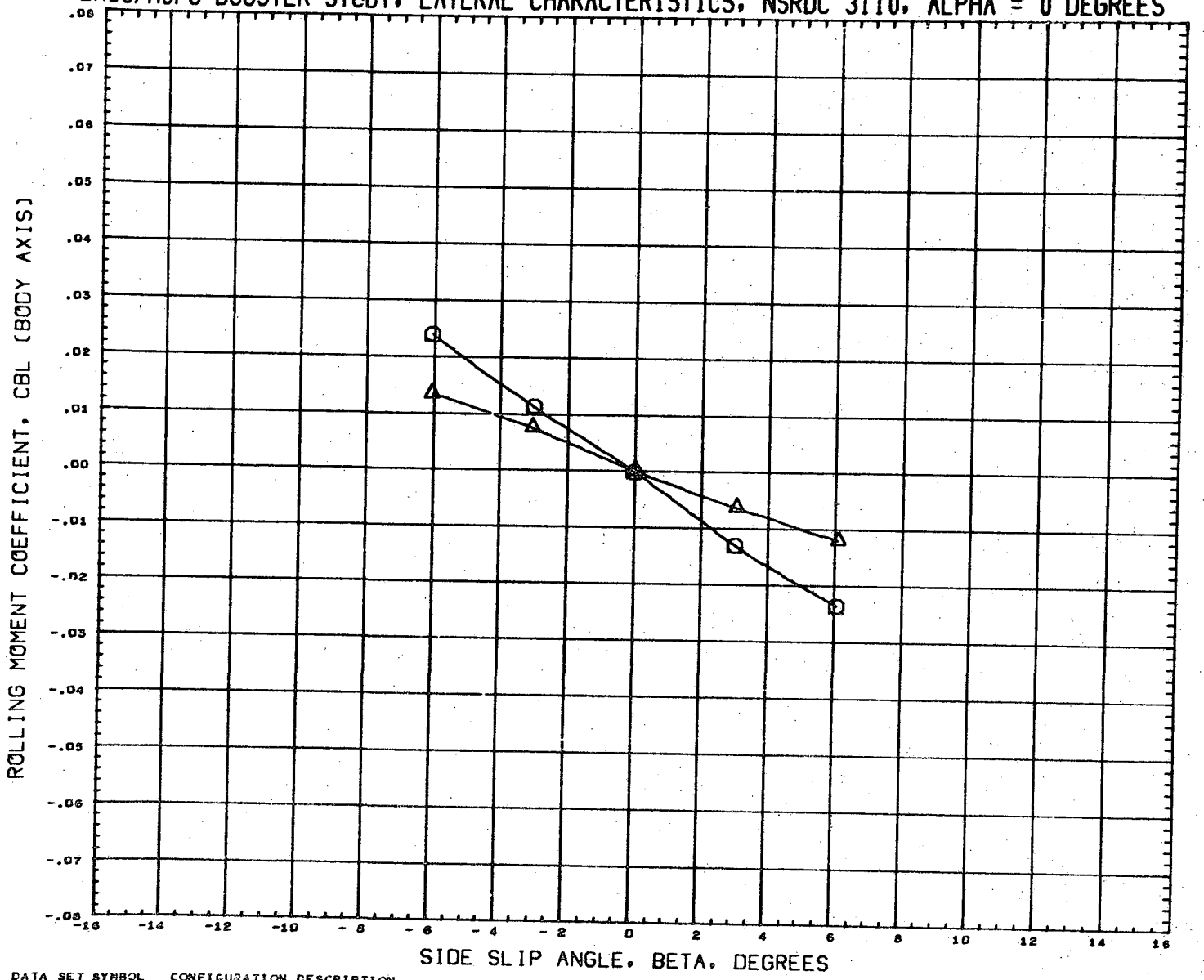


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2193)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000
(RN2209)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

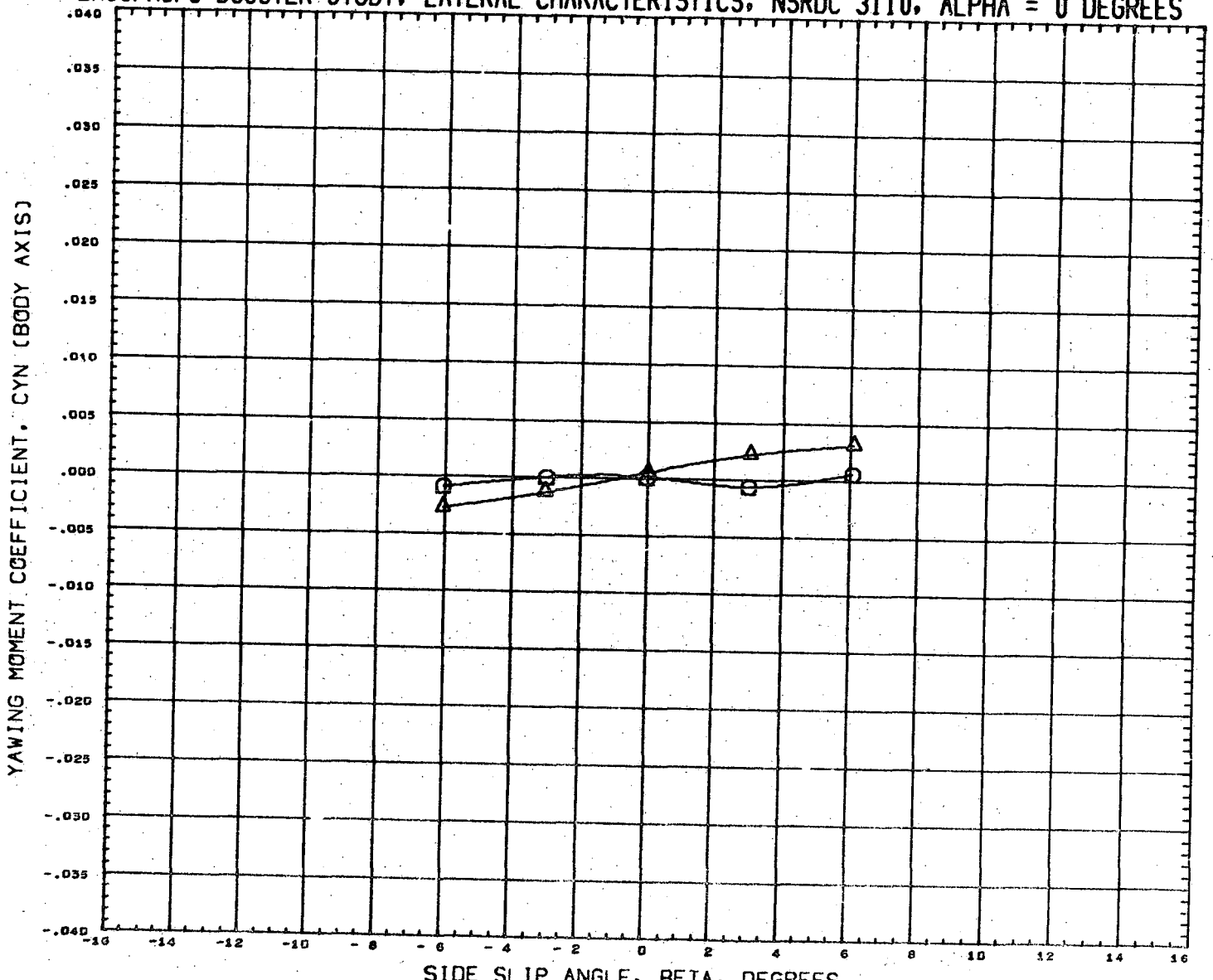


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2194)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000
(RN2210)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.377

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

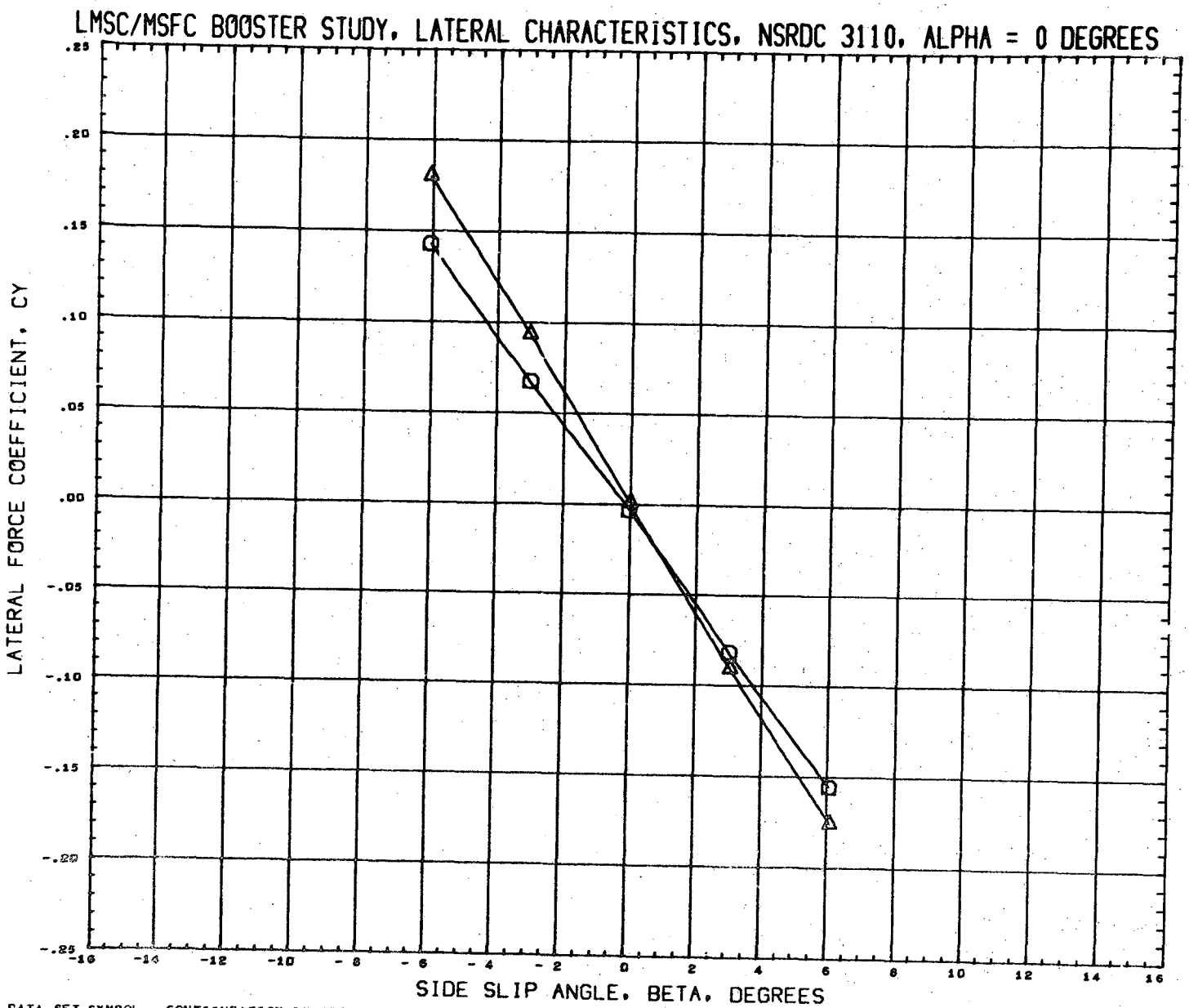
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2194)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000
(RN2210)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.377

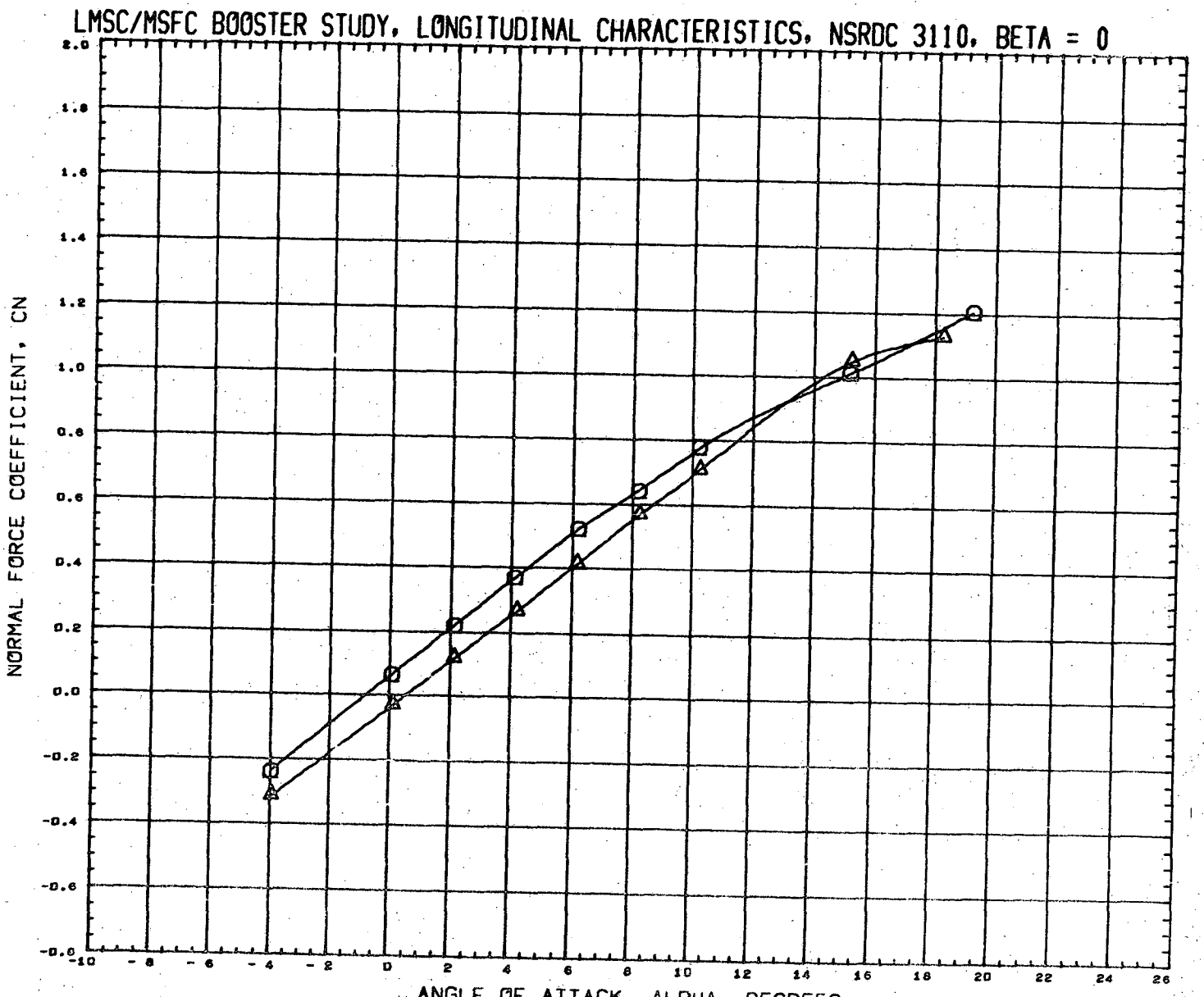
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2194)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000
(RN2210)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.377

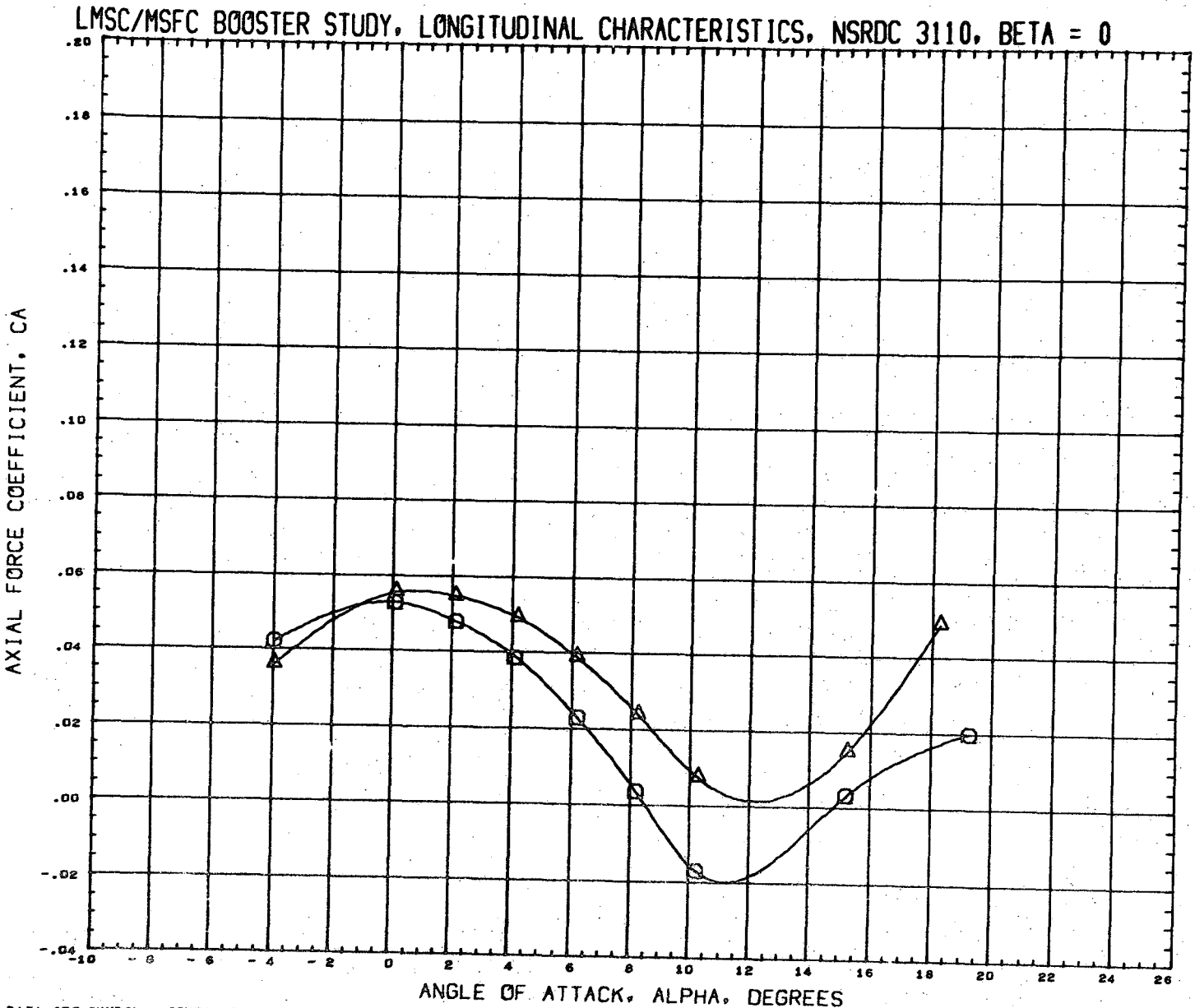
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2201)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000
(RN2217)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

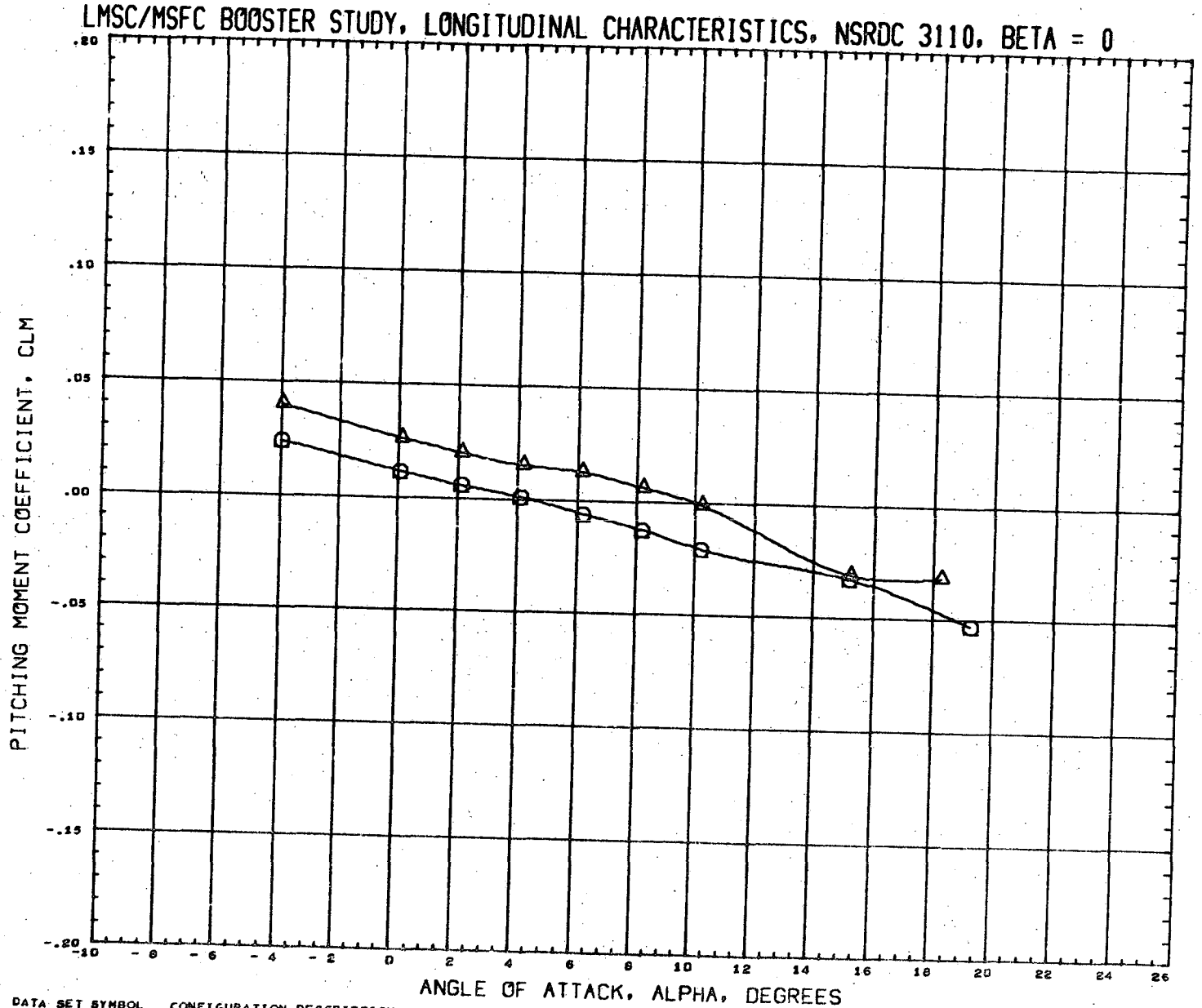
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2201)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000
(RN2217)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

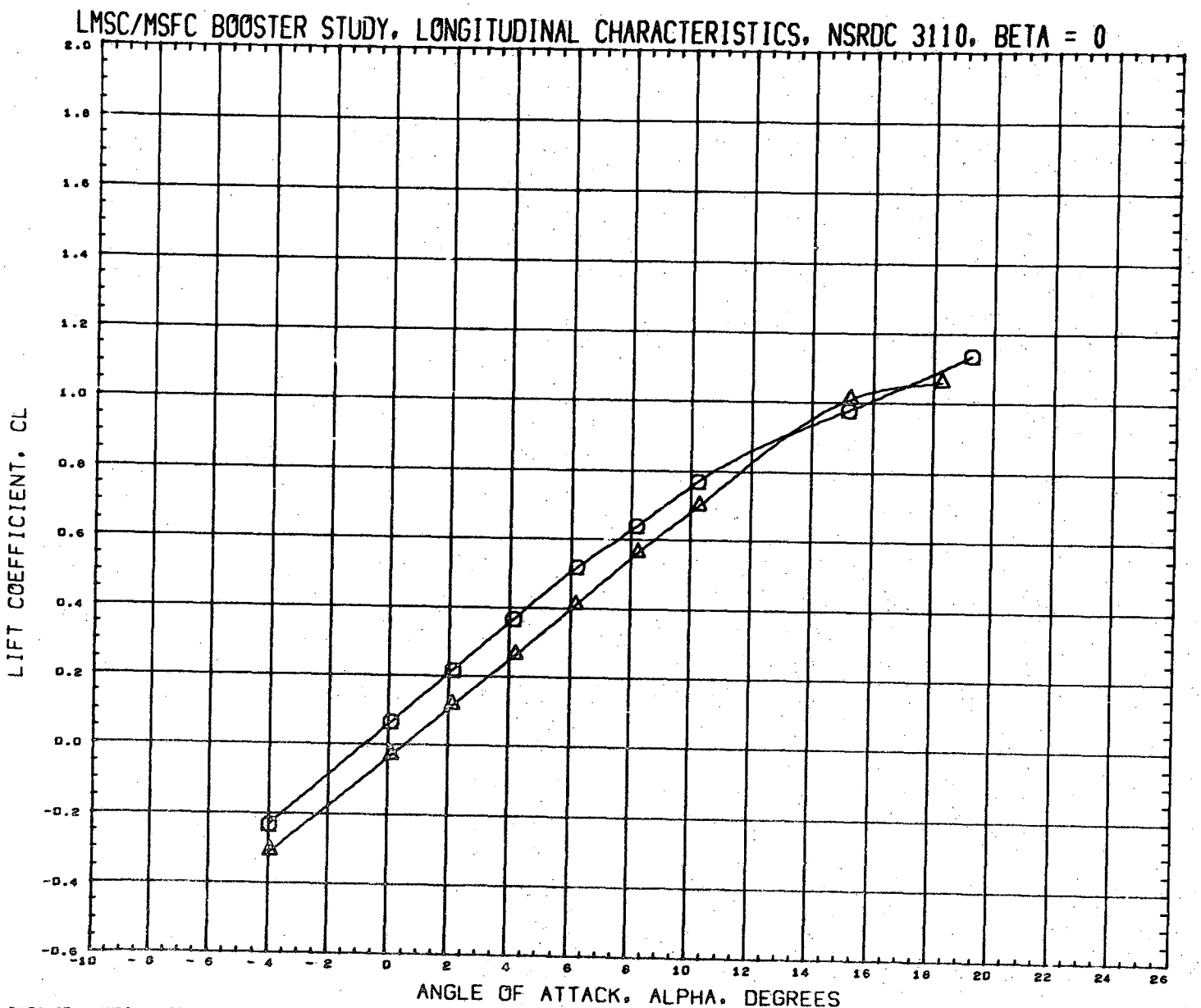


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2201)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2217)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

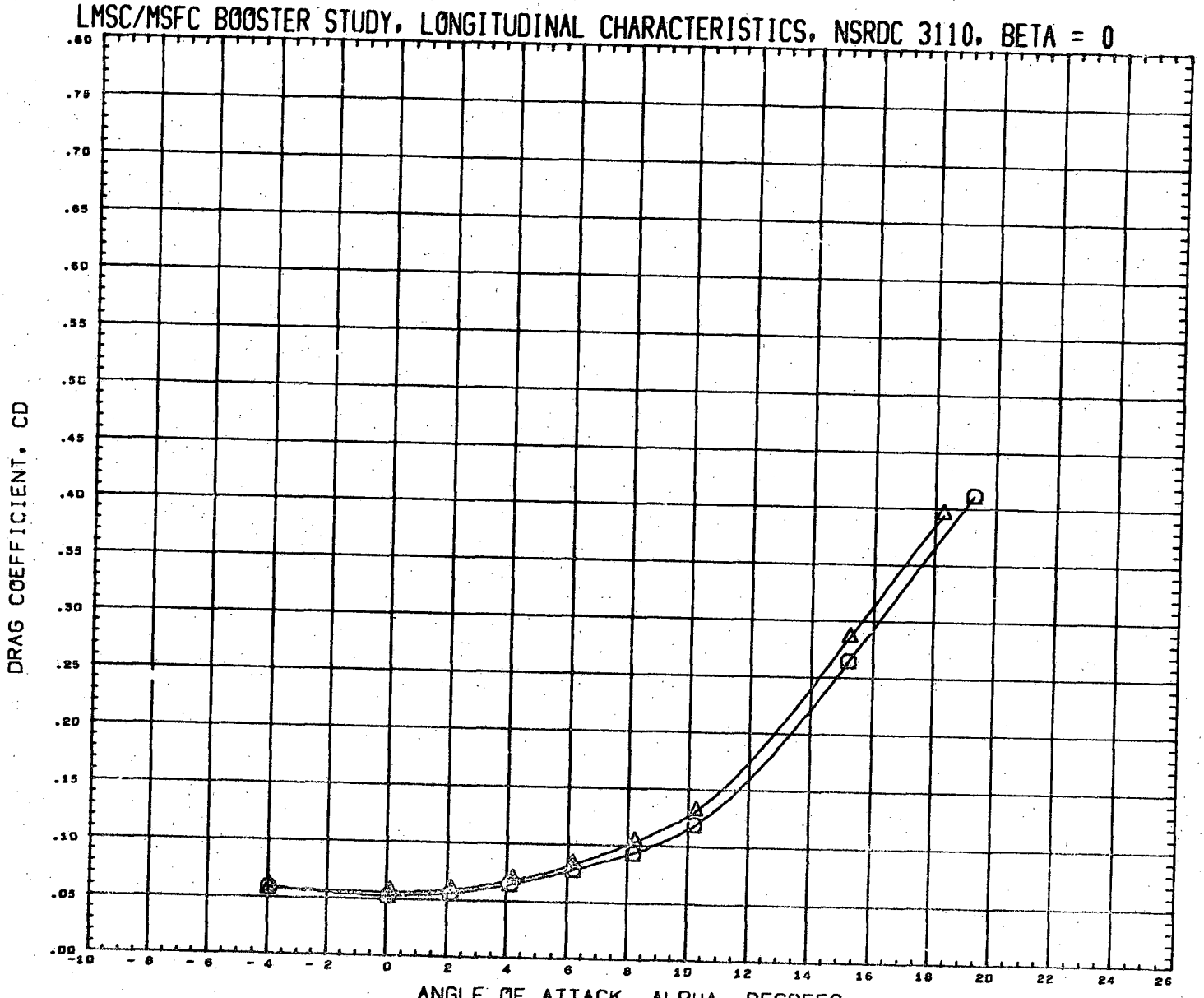
MACH 0.381



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2201)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000
(RN2217)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.5550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

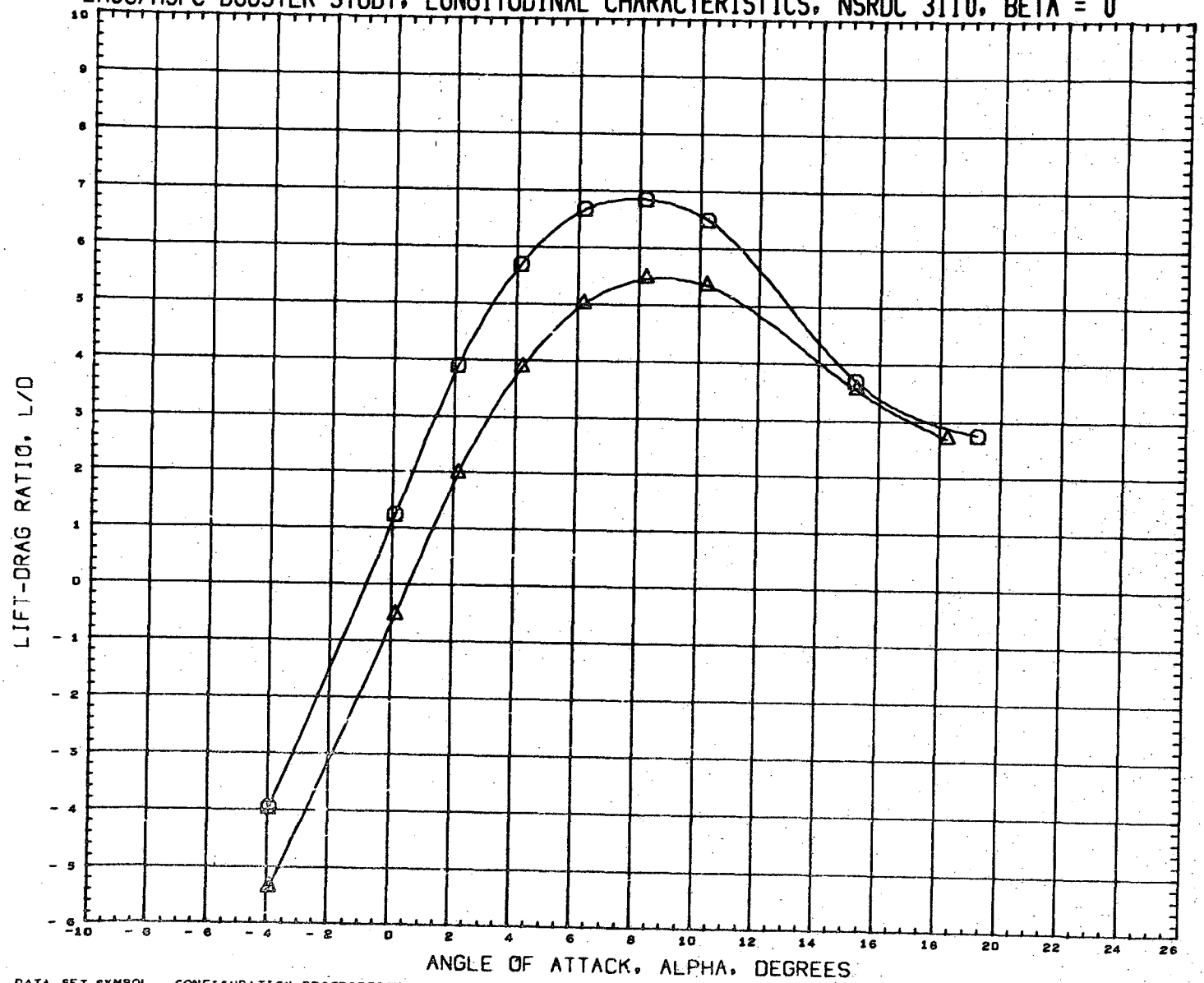


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2201)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000
(RN2217)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

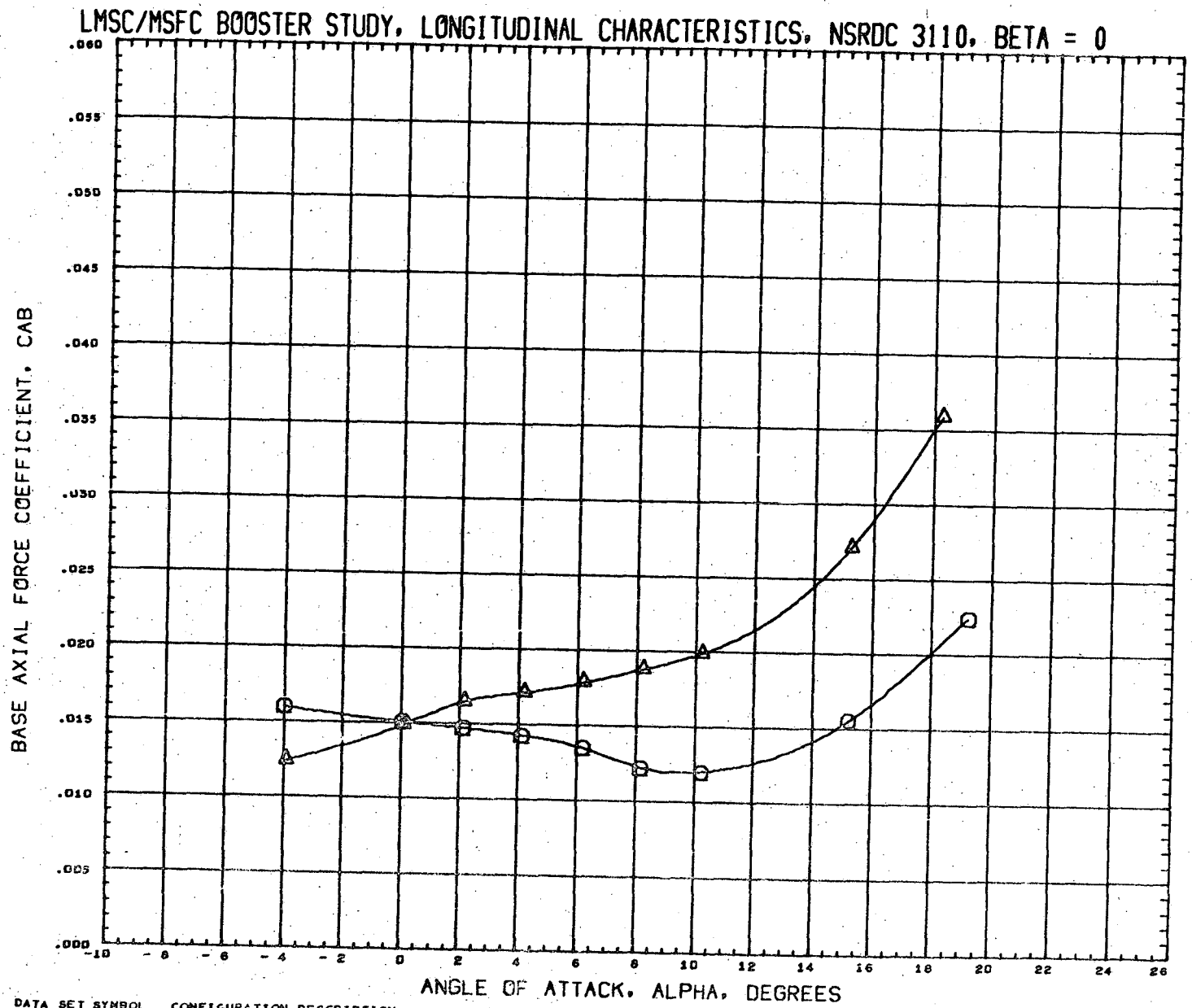


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2201)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2217)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

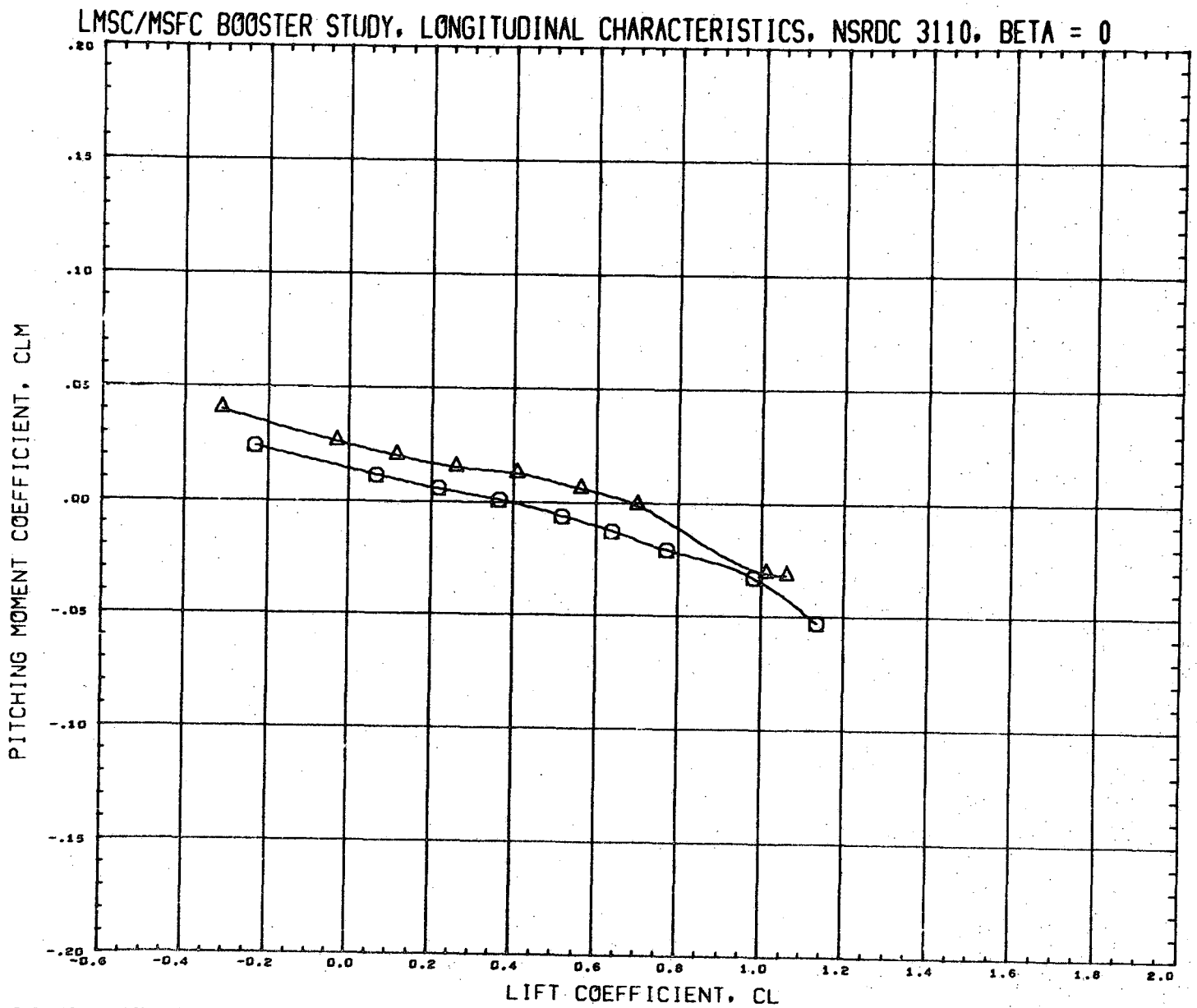
MACH 0.381



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2201)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000
(RN2217)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

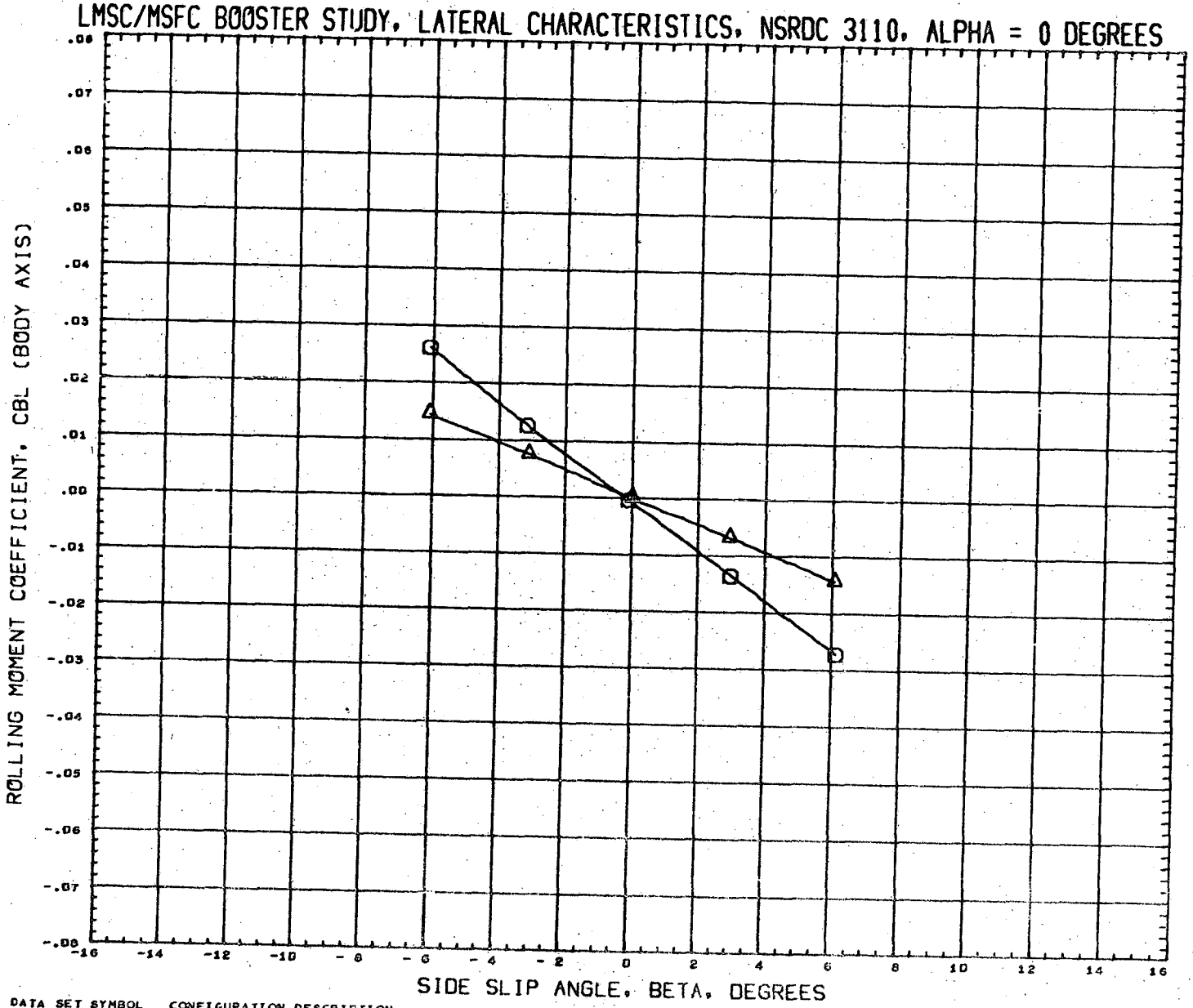
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2201)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000
(RN2217)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

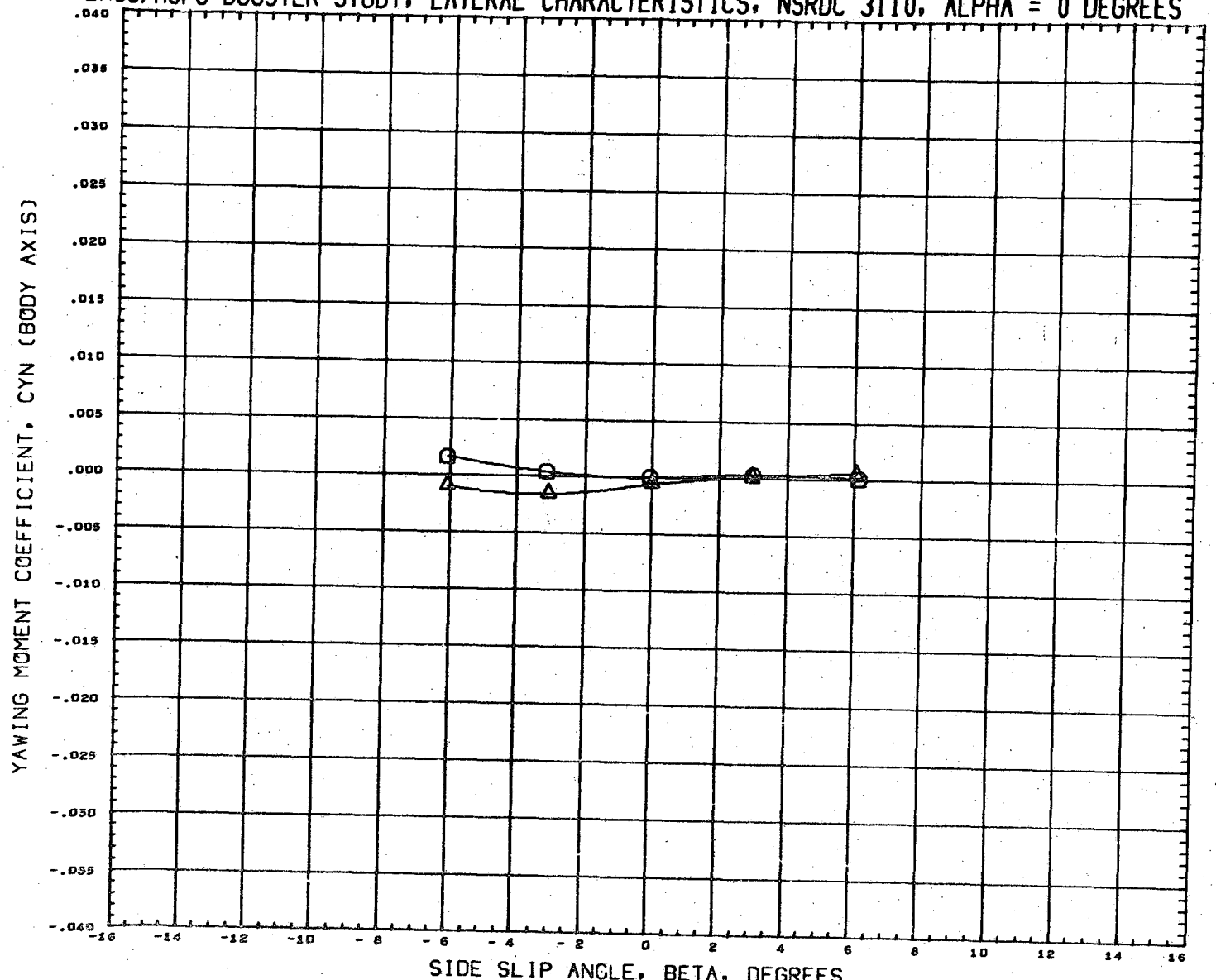


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2202)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000
(RN2216)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.301

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

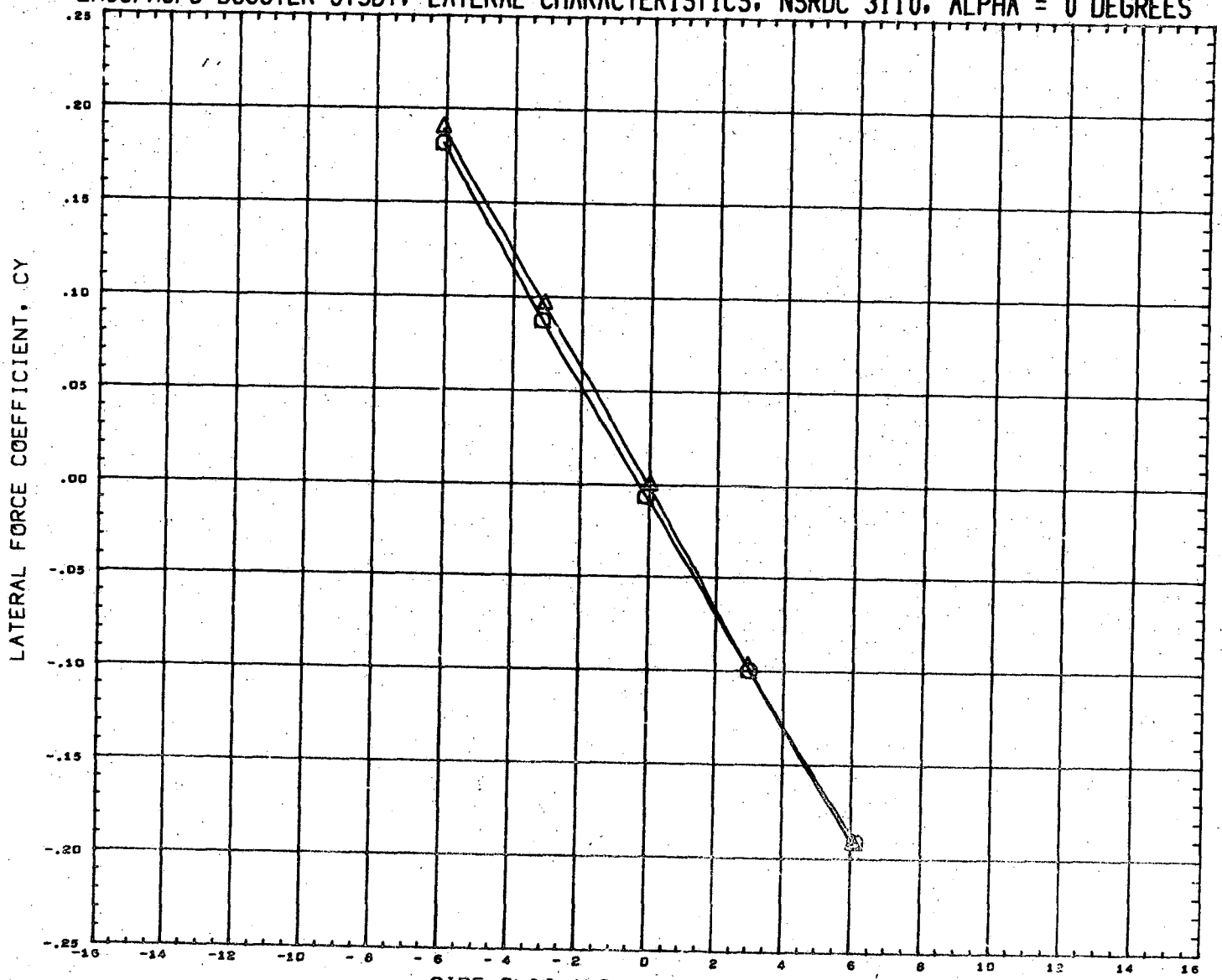


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2202) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000
(RN2218) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

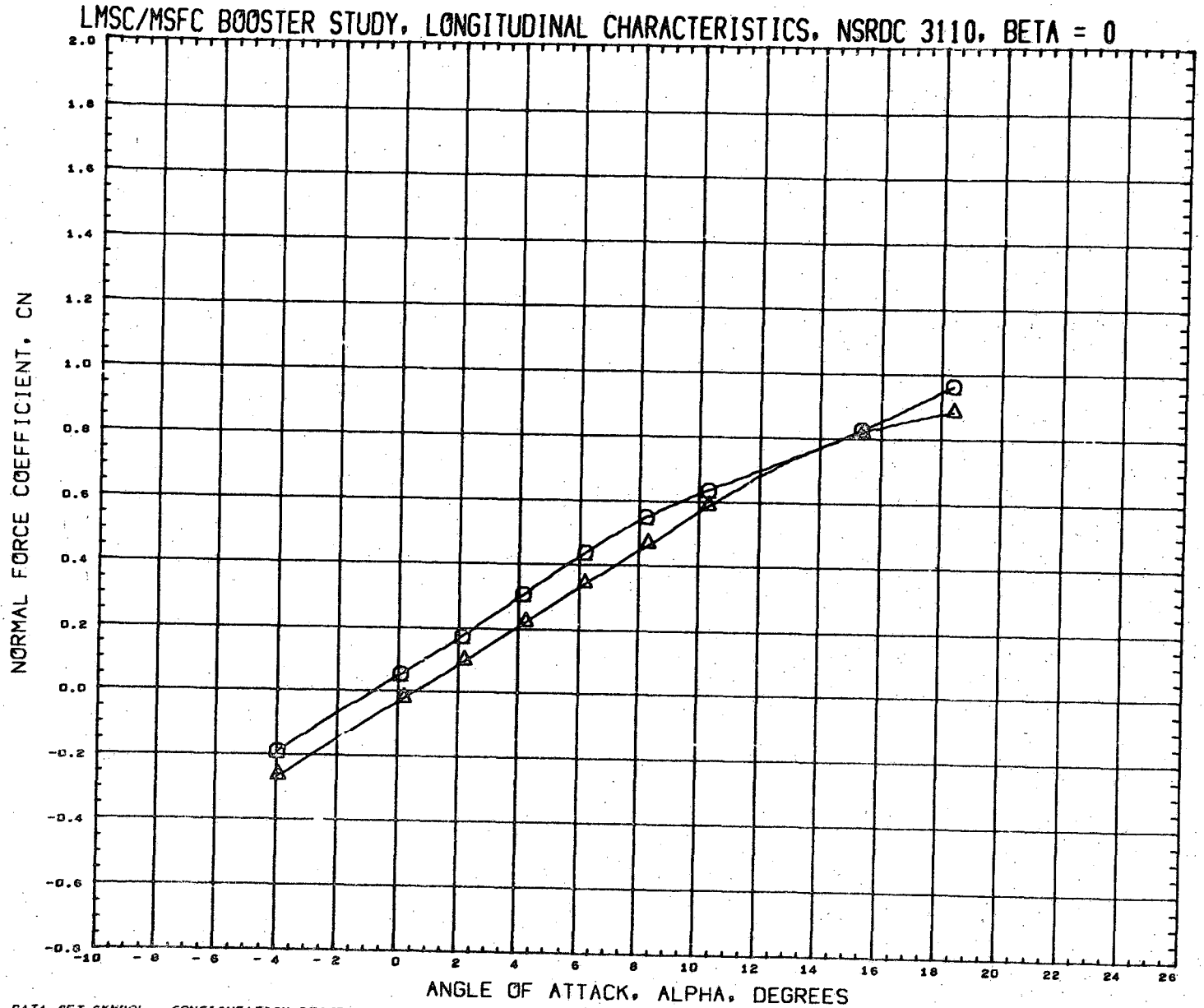
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2202)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000
(RN2210)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



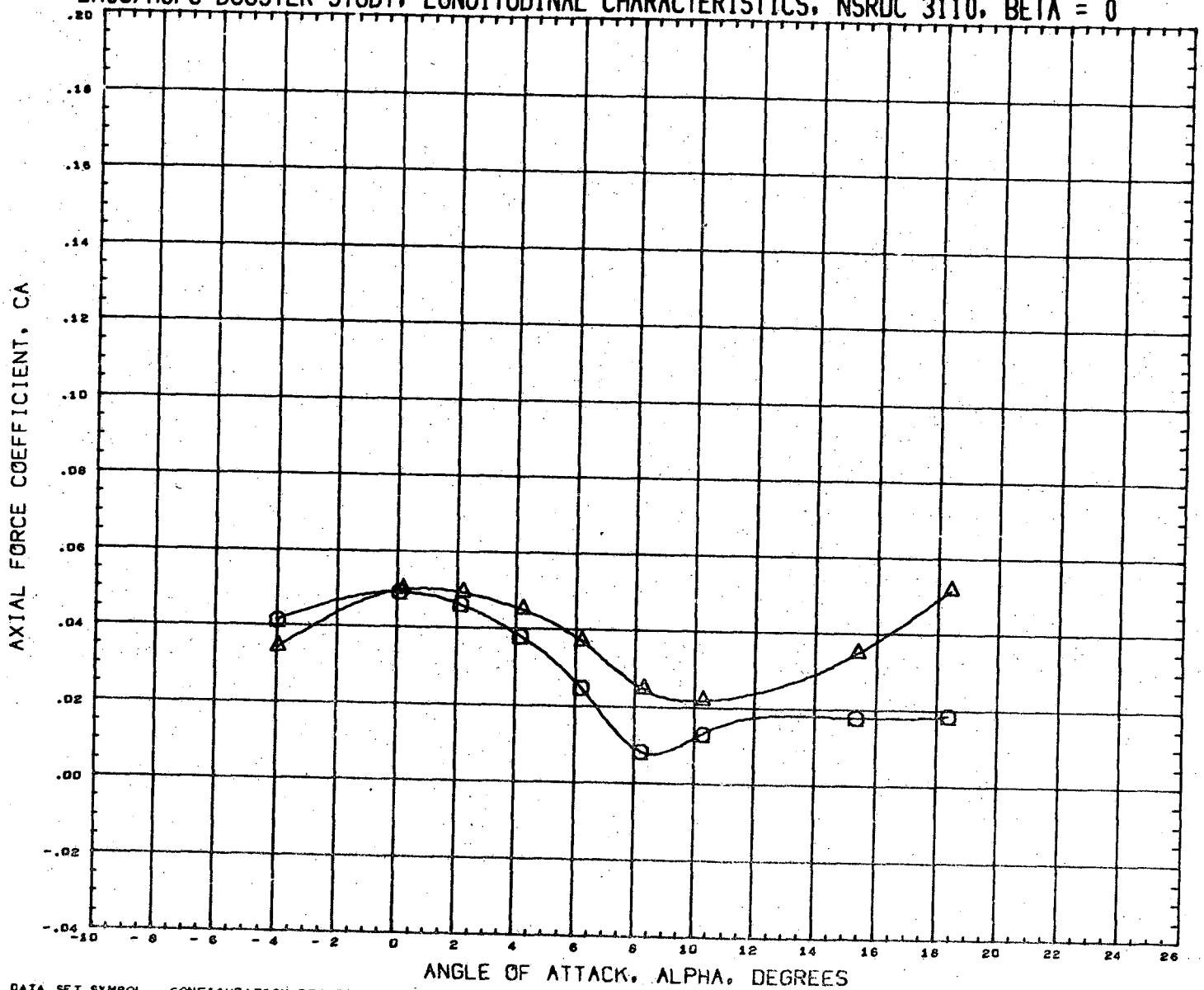
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2265)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2277)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



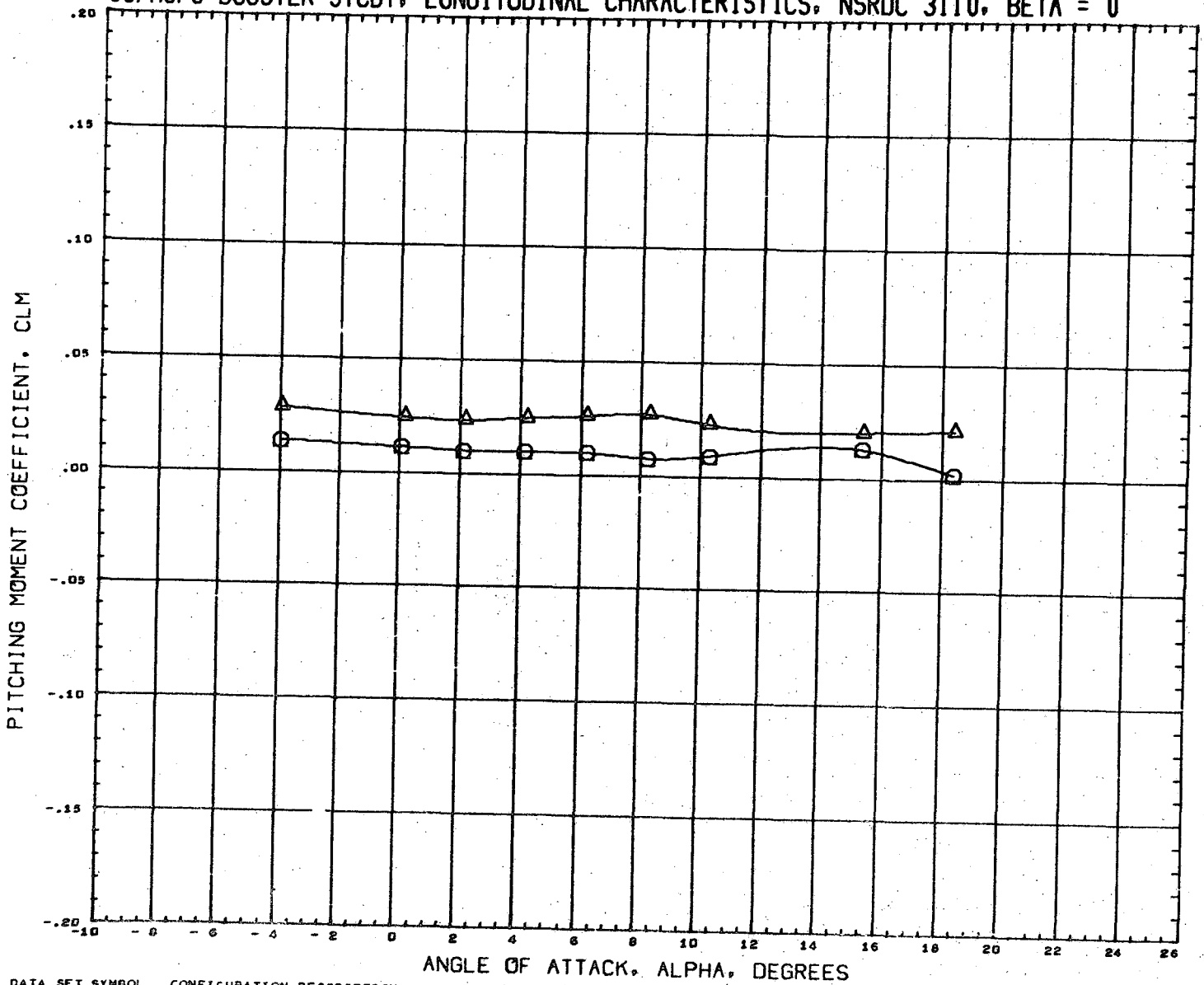
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2265)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2277)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



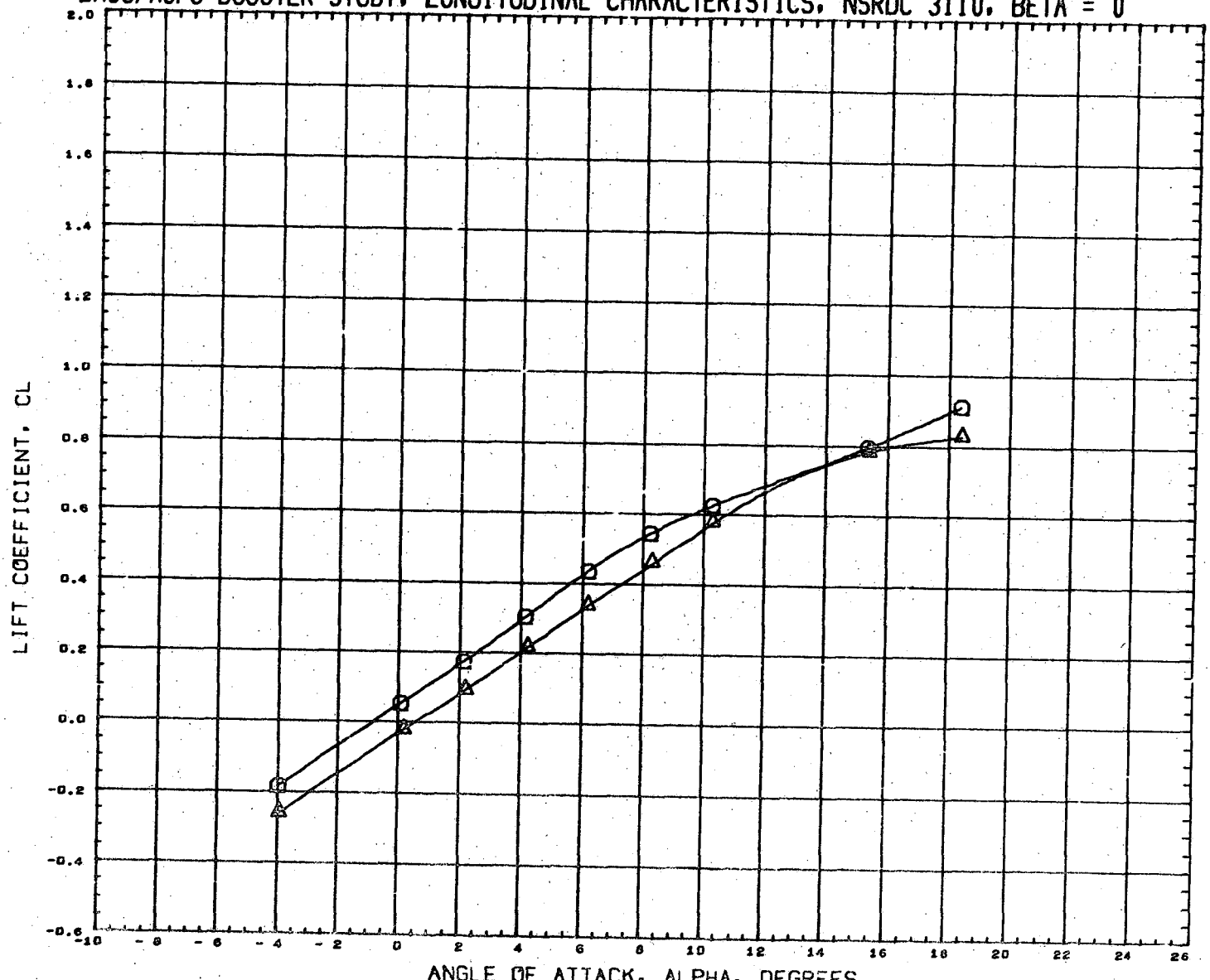
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2265)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000
(RN2277)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

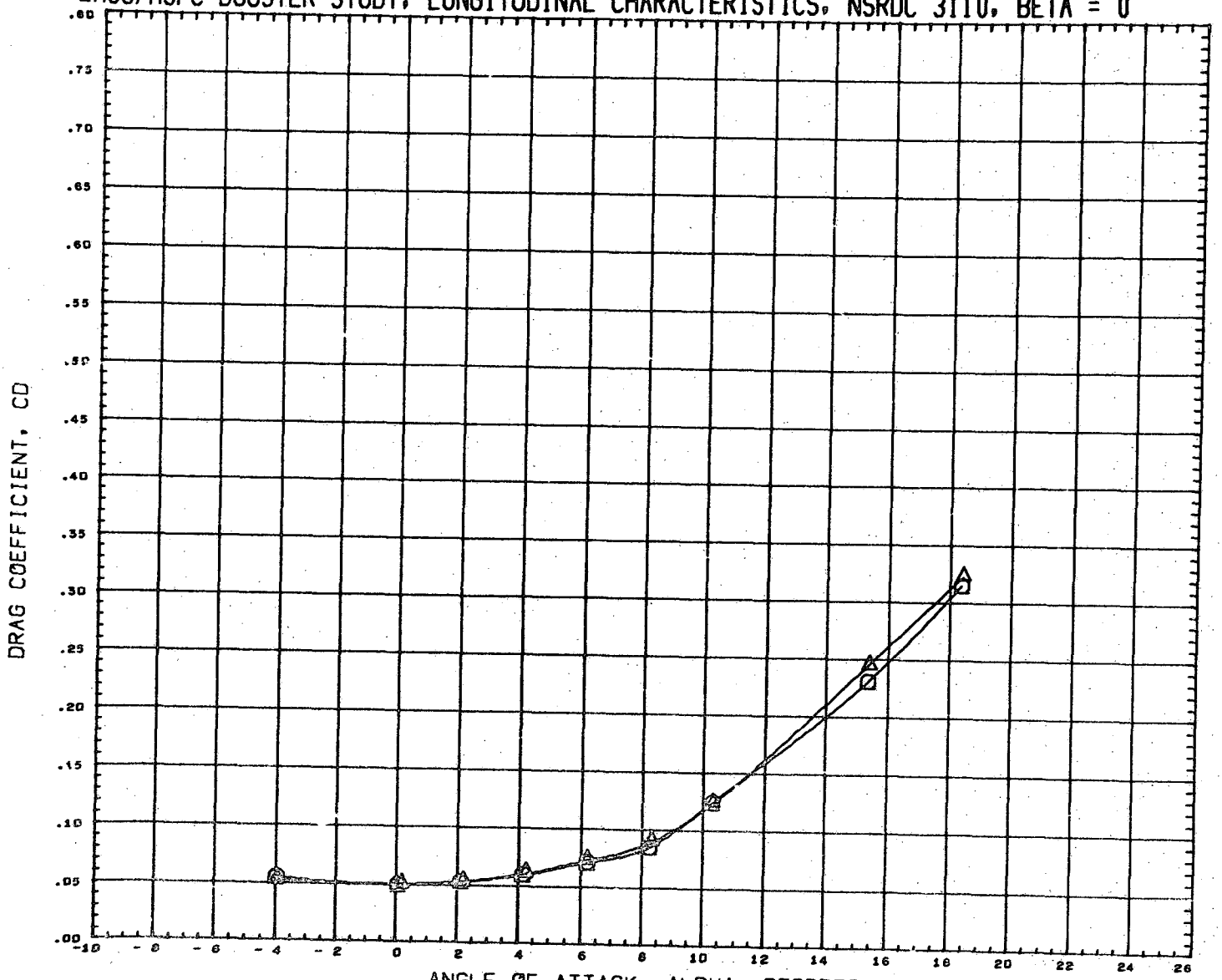


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2265)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000
(RN2277)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

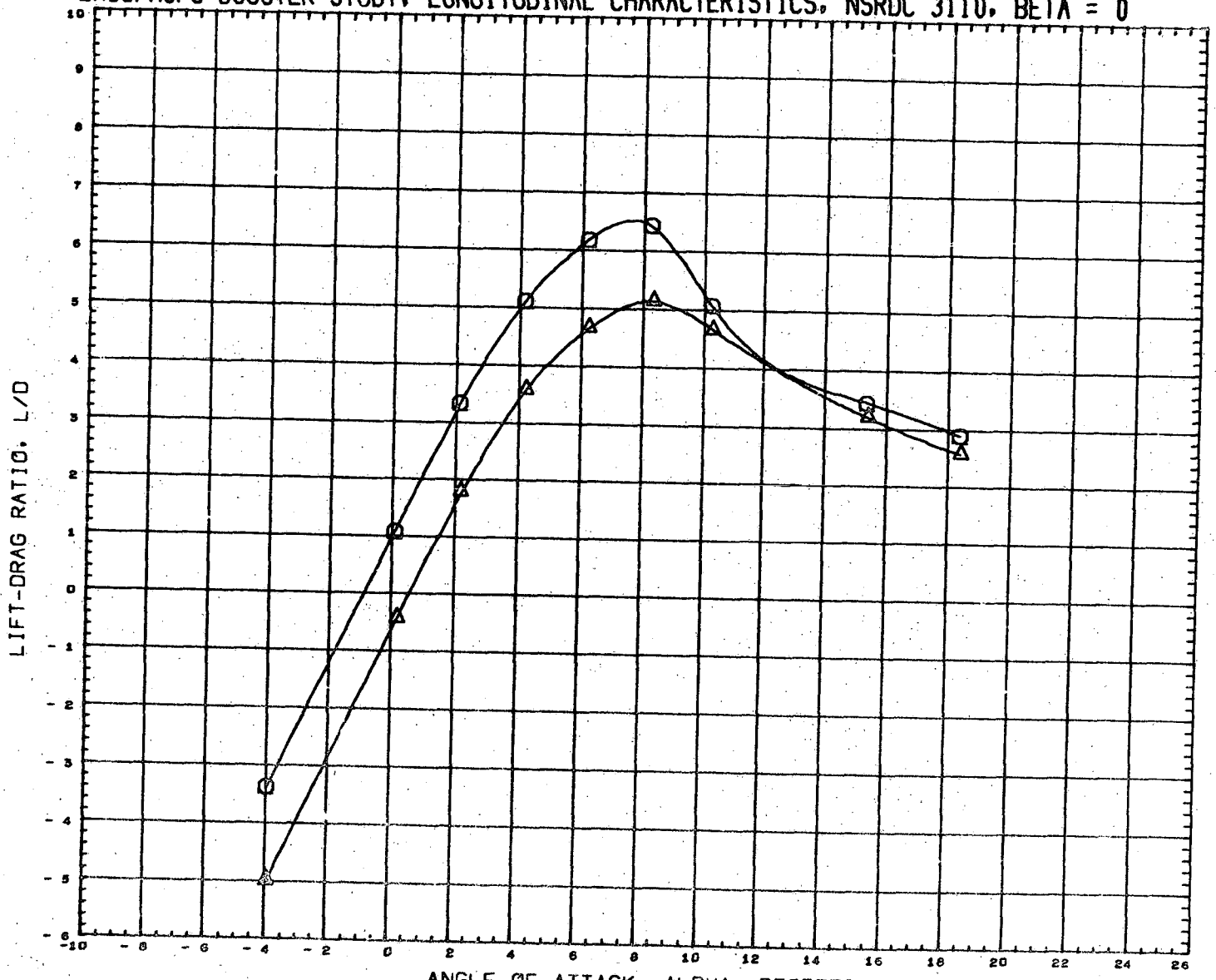


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2265)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000
(RN2277)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.301

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØOSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



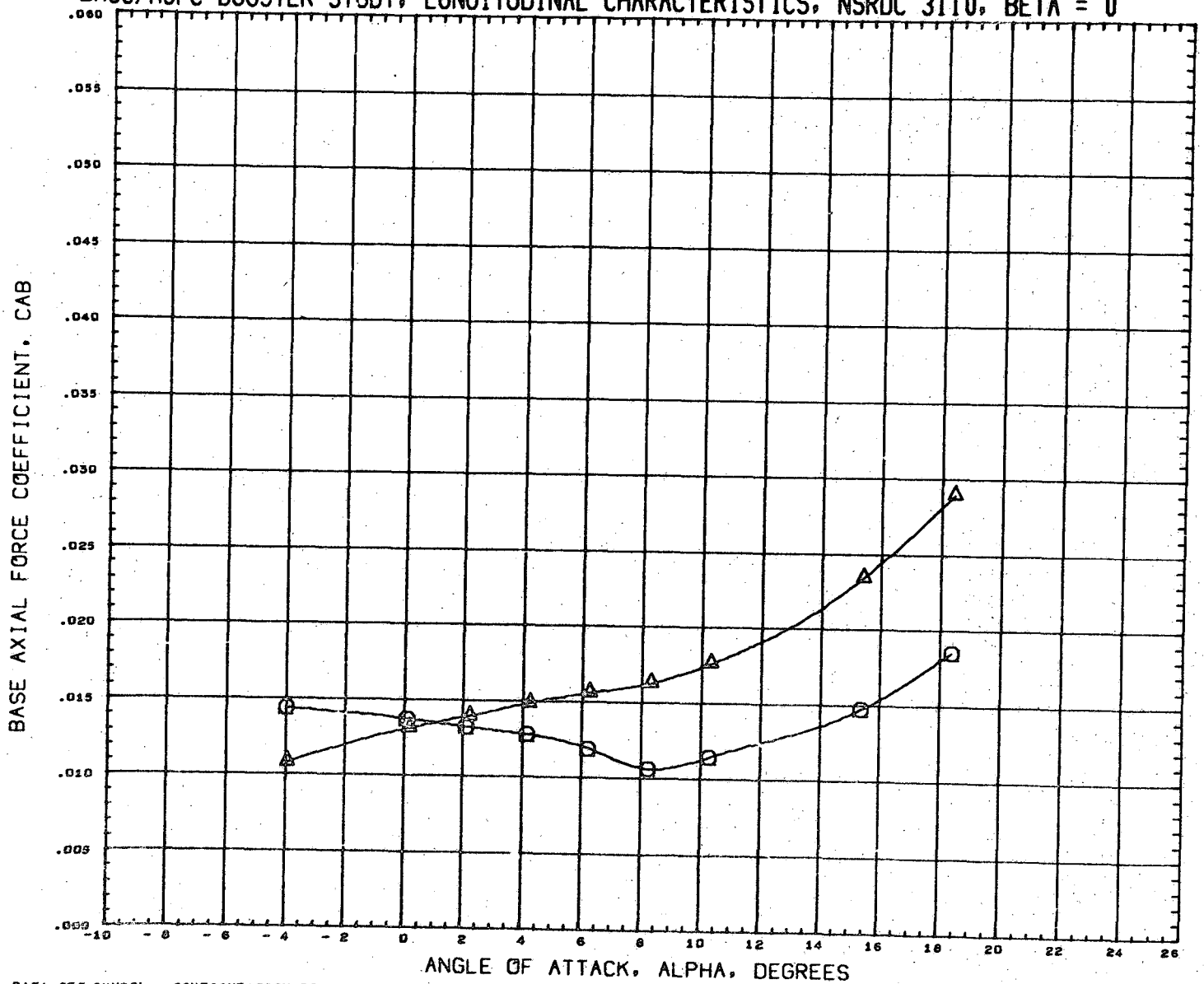
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2265)	○	NSRDC-311D,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2277)	△	NSRDC-311D,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.501

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

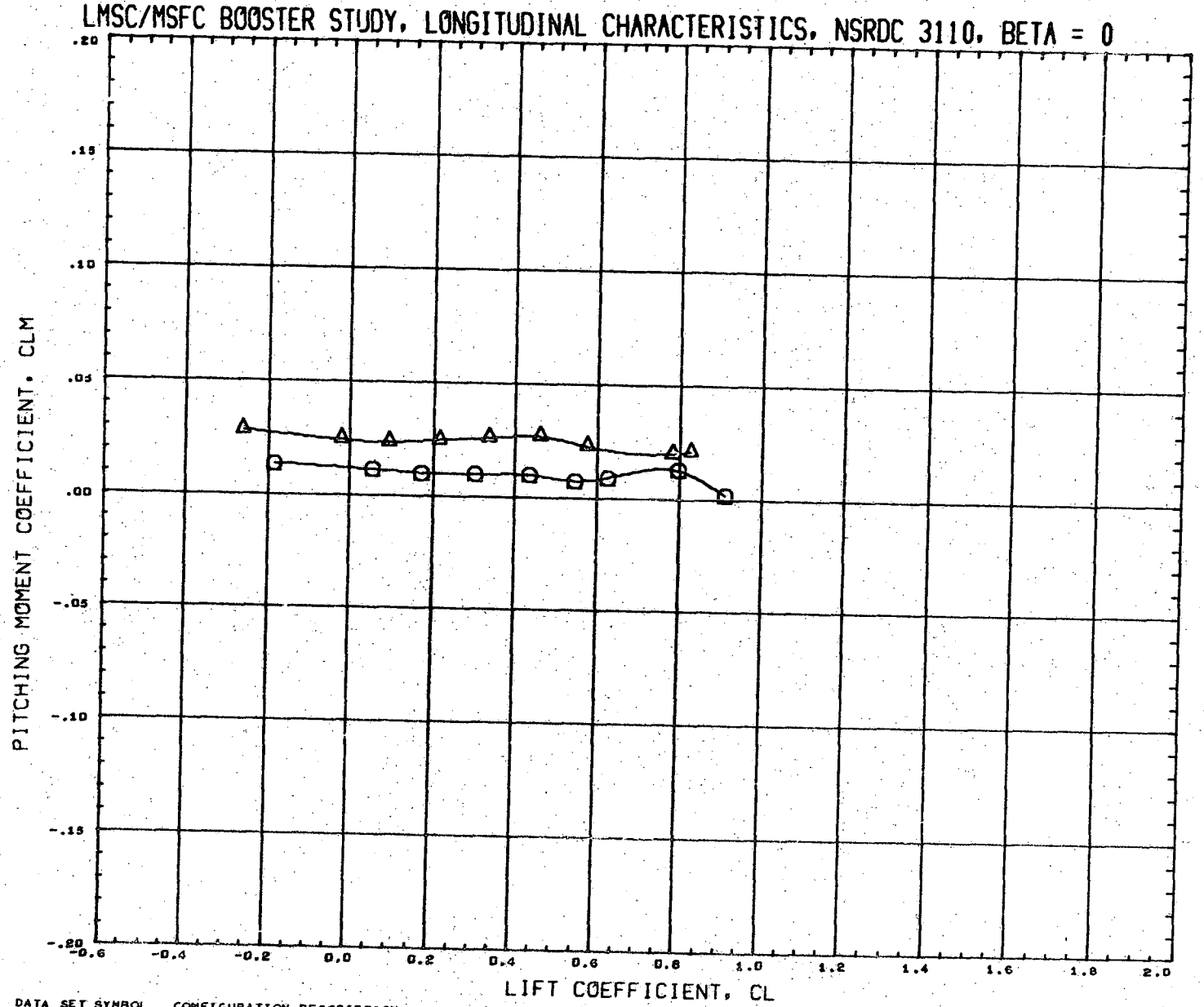


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2265)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000
(RN2277)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

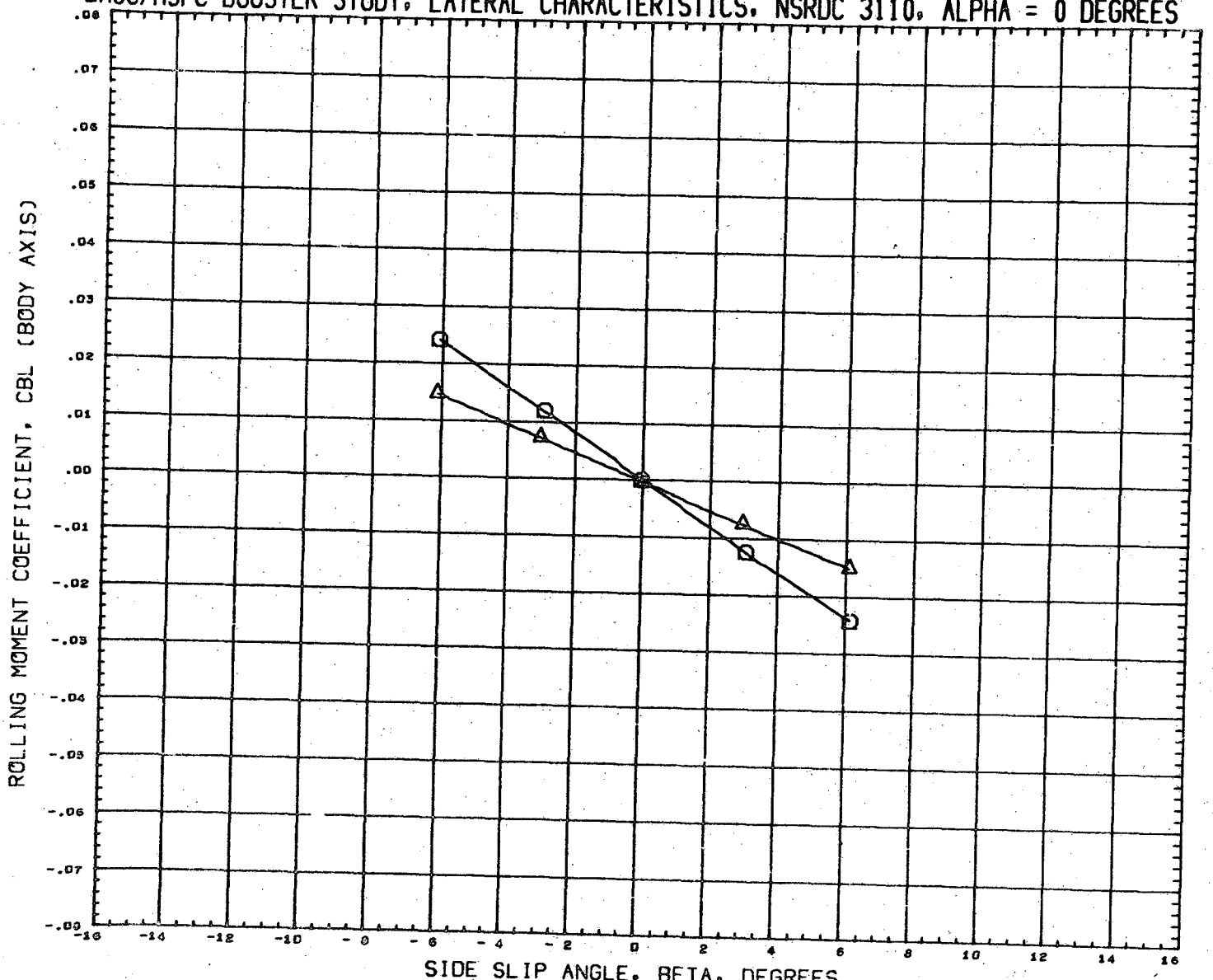


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2265)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000
(RN2277)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.581

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

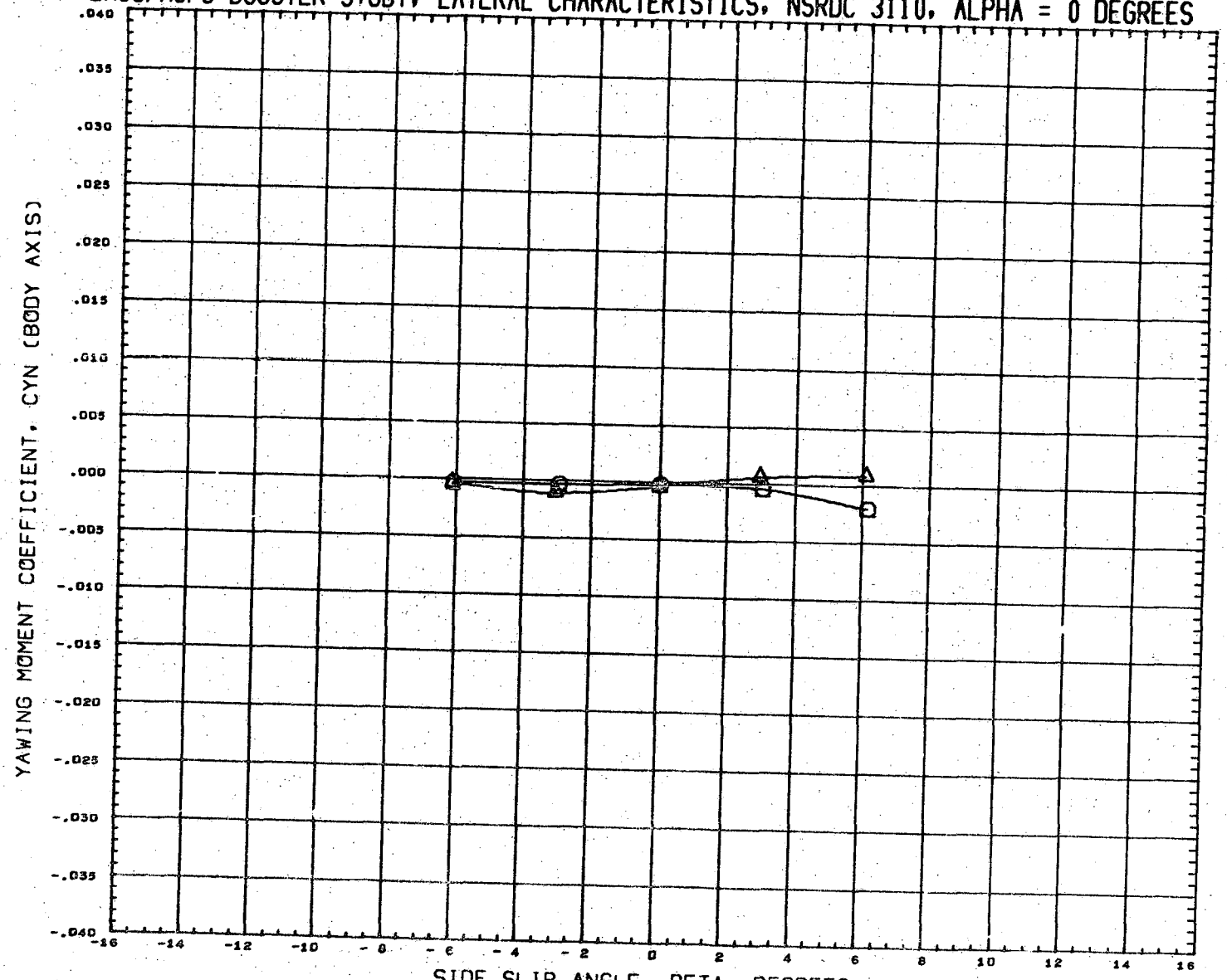


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2266)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000
(RN2278)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

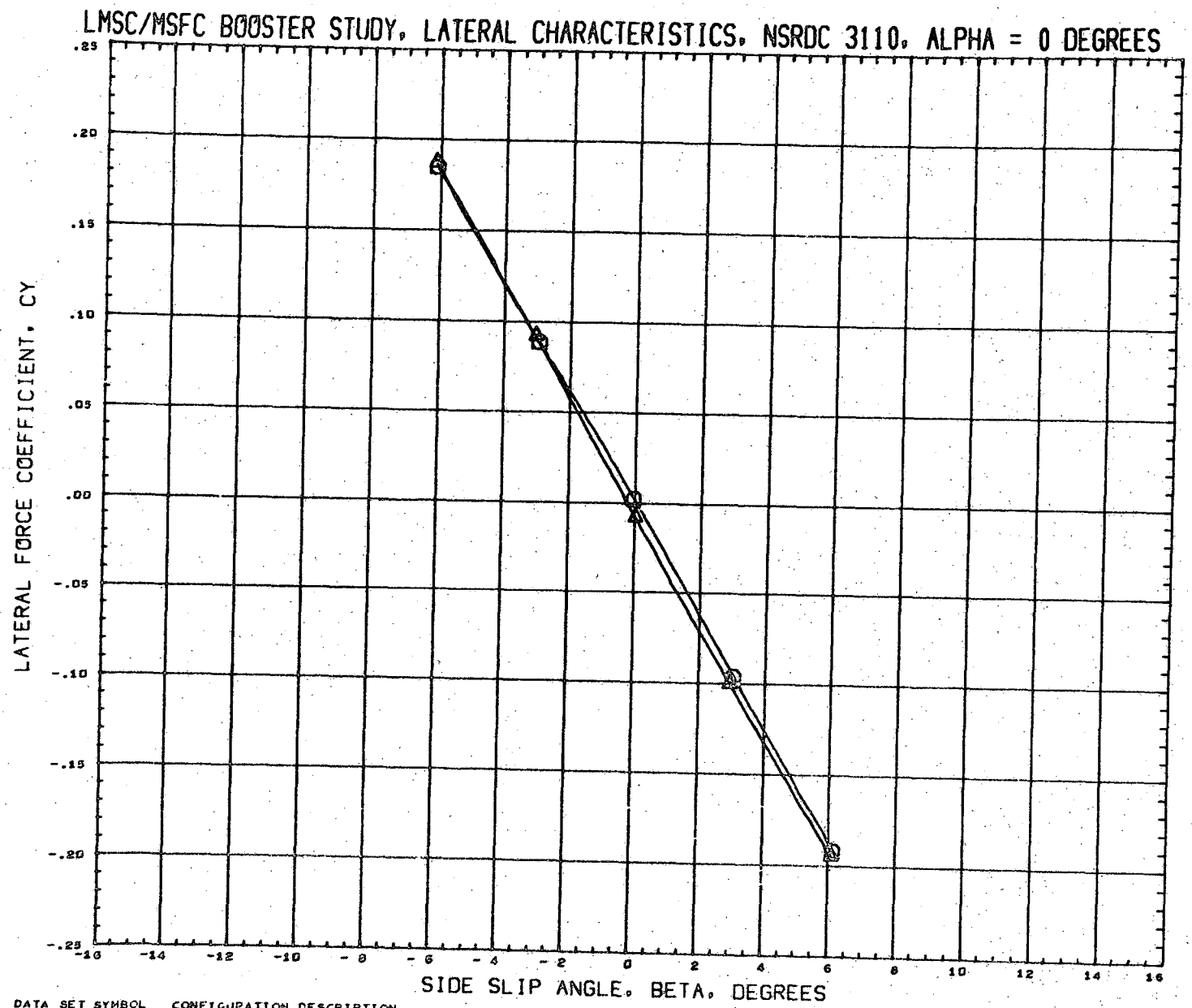
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS
(RN2266)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000
(RN2270)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

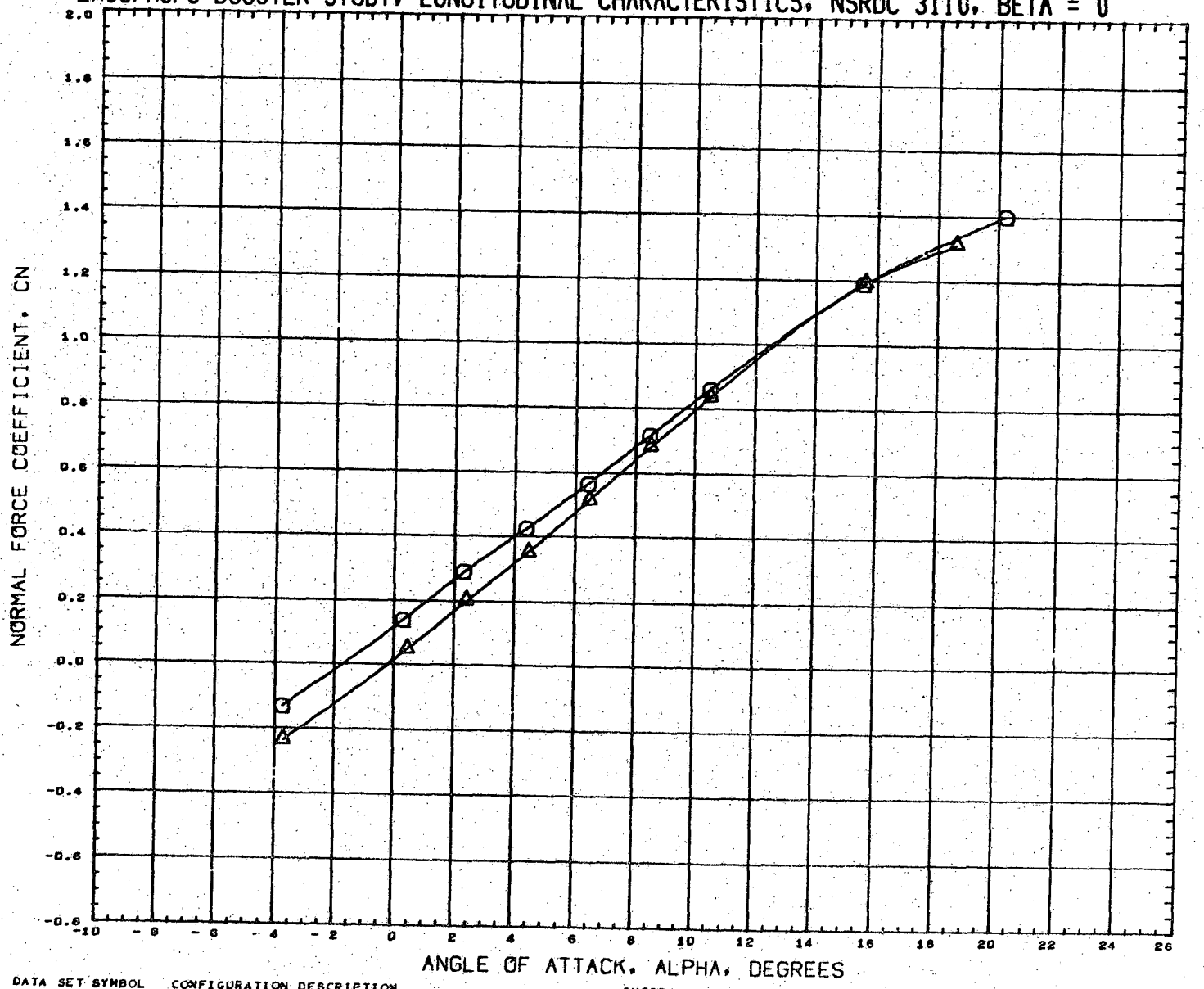


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2266)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000
(RN2278)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

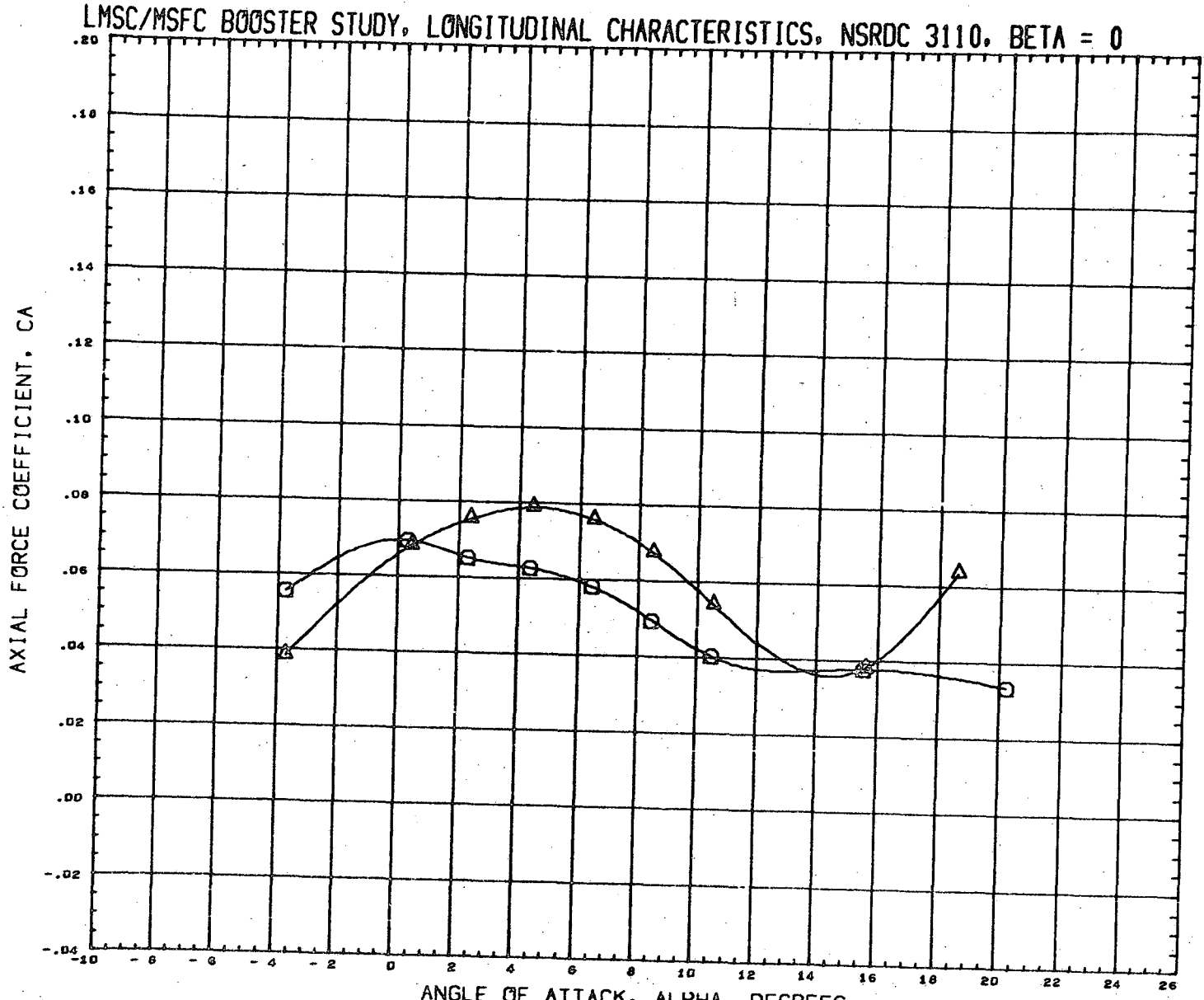
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2005)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2021)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000

MACH 0.379

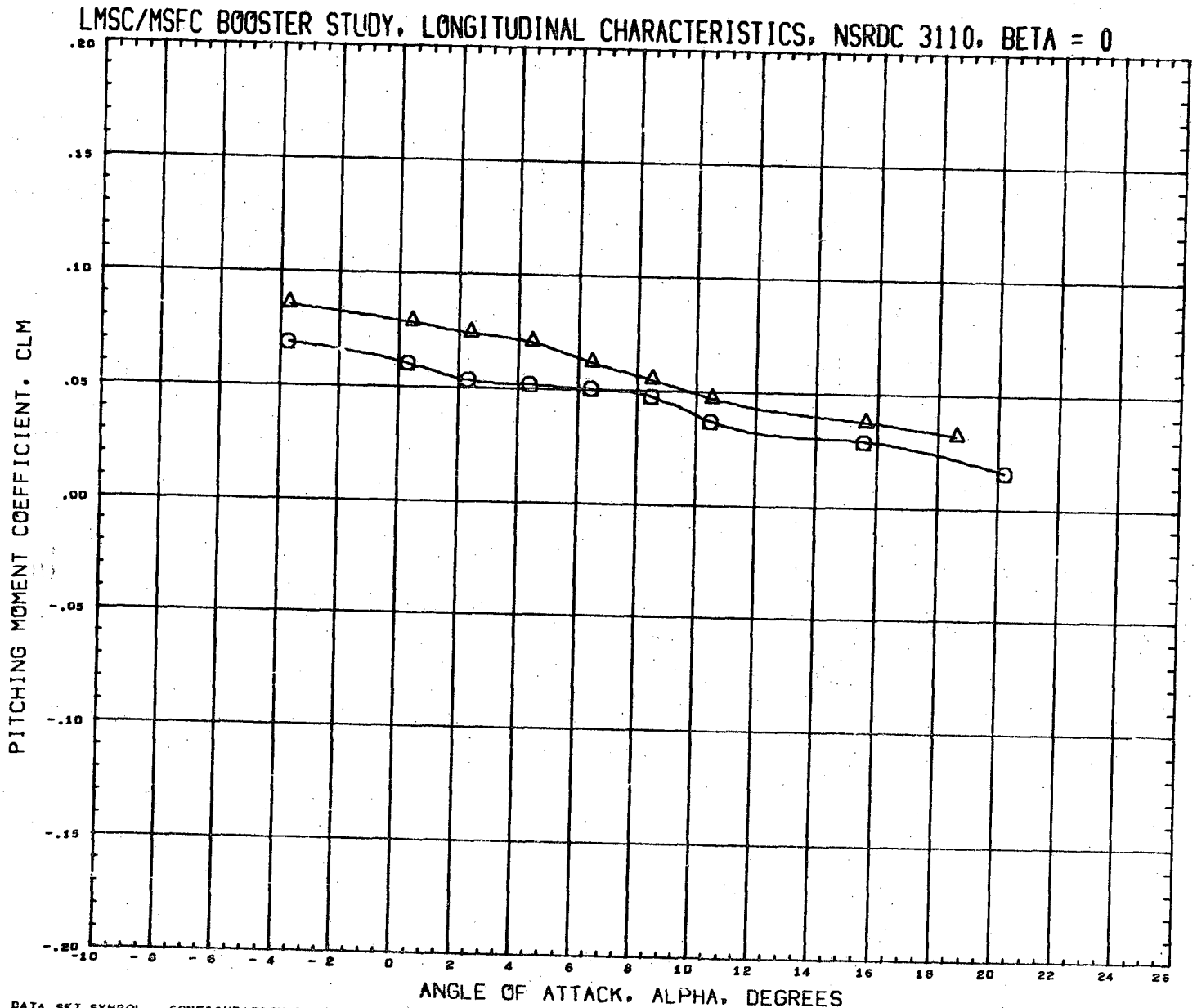
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2005) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2021) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

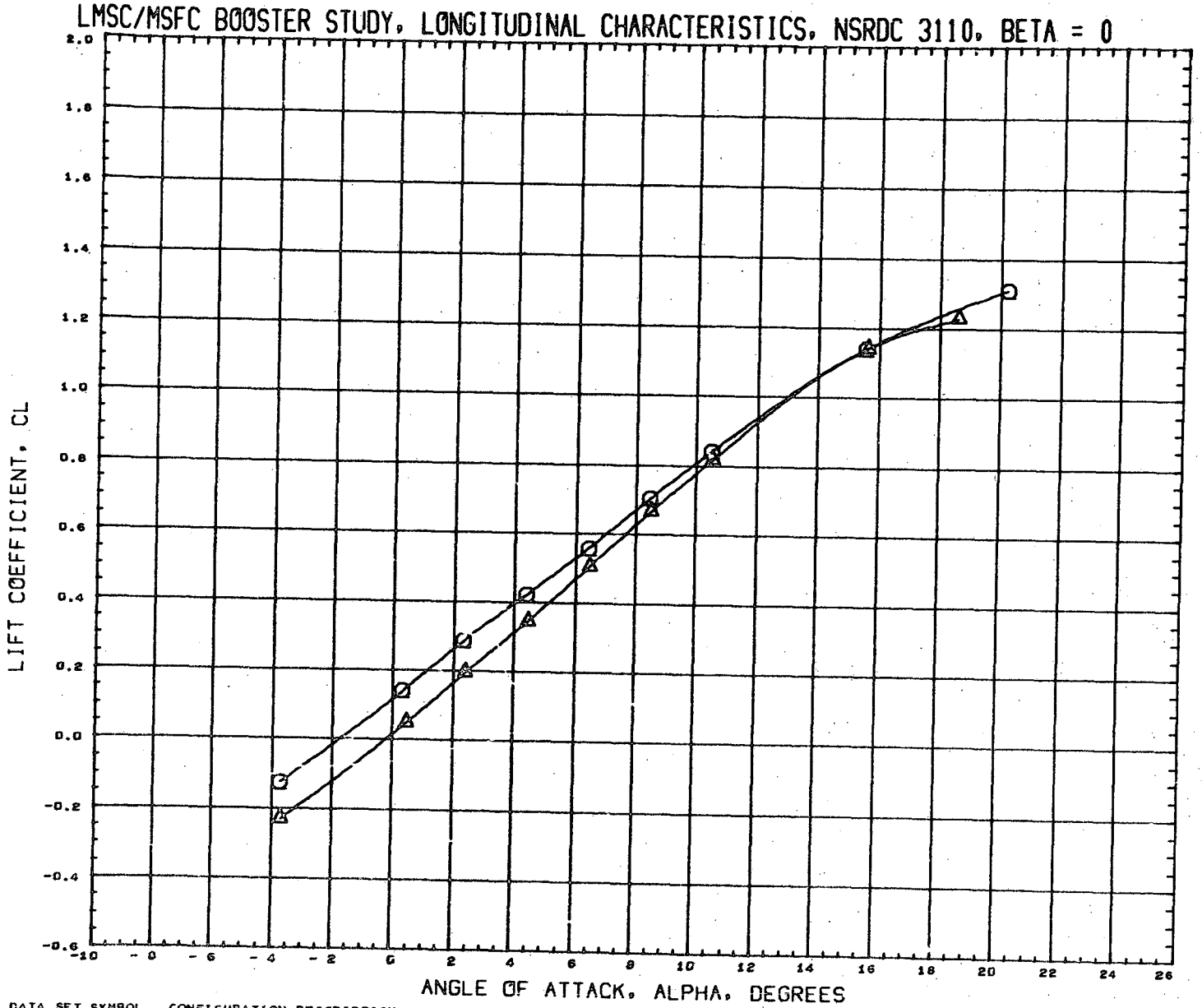


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2005)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2021)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH : 0.379

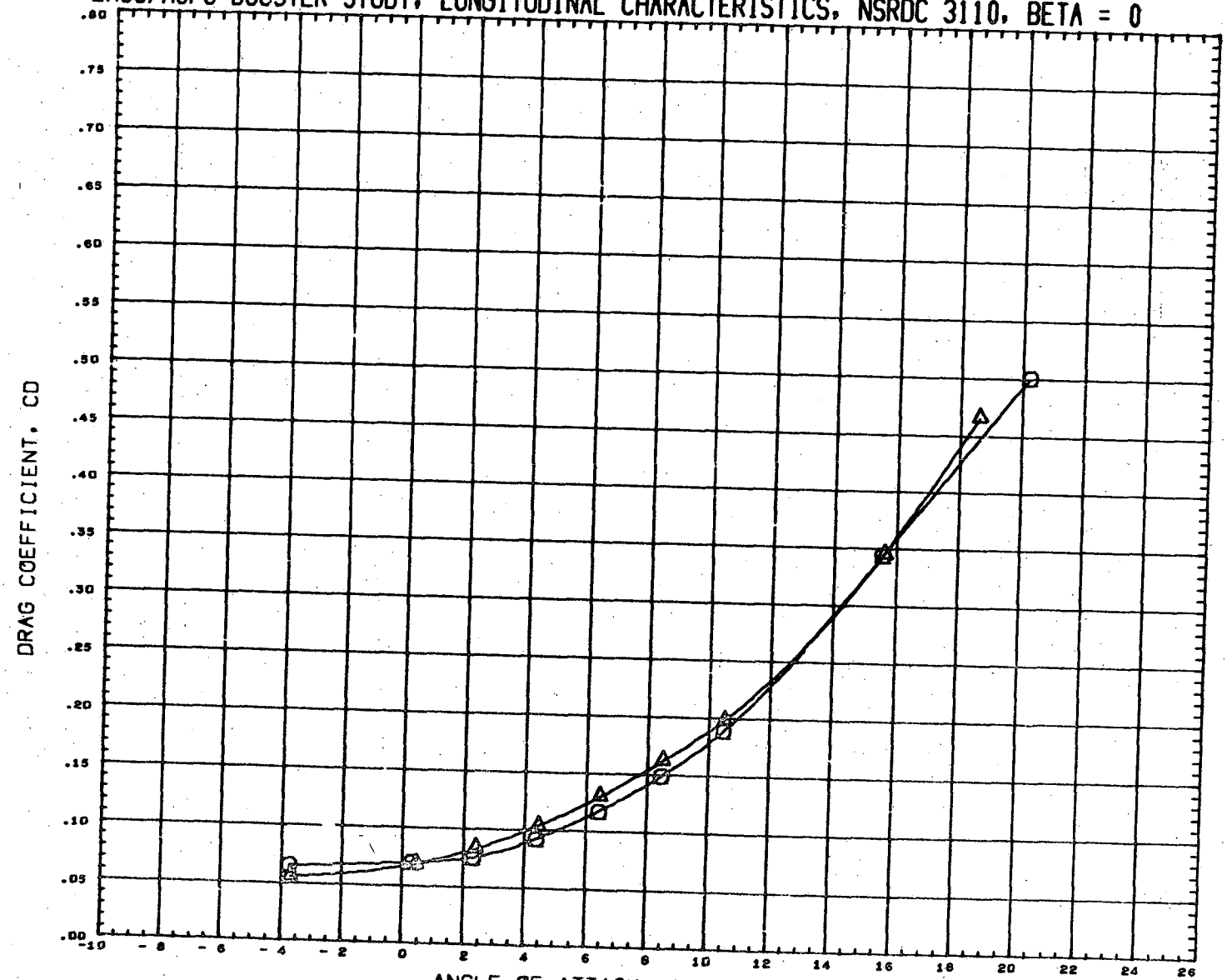


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2021)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2005)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2021)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4300	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

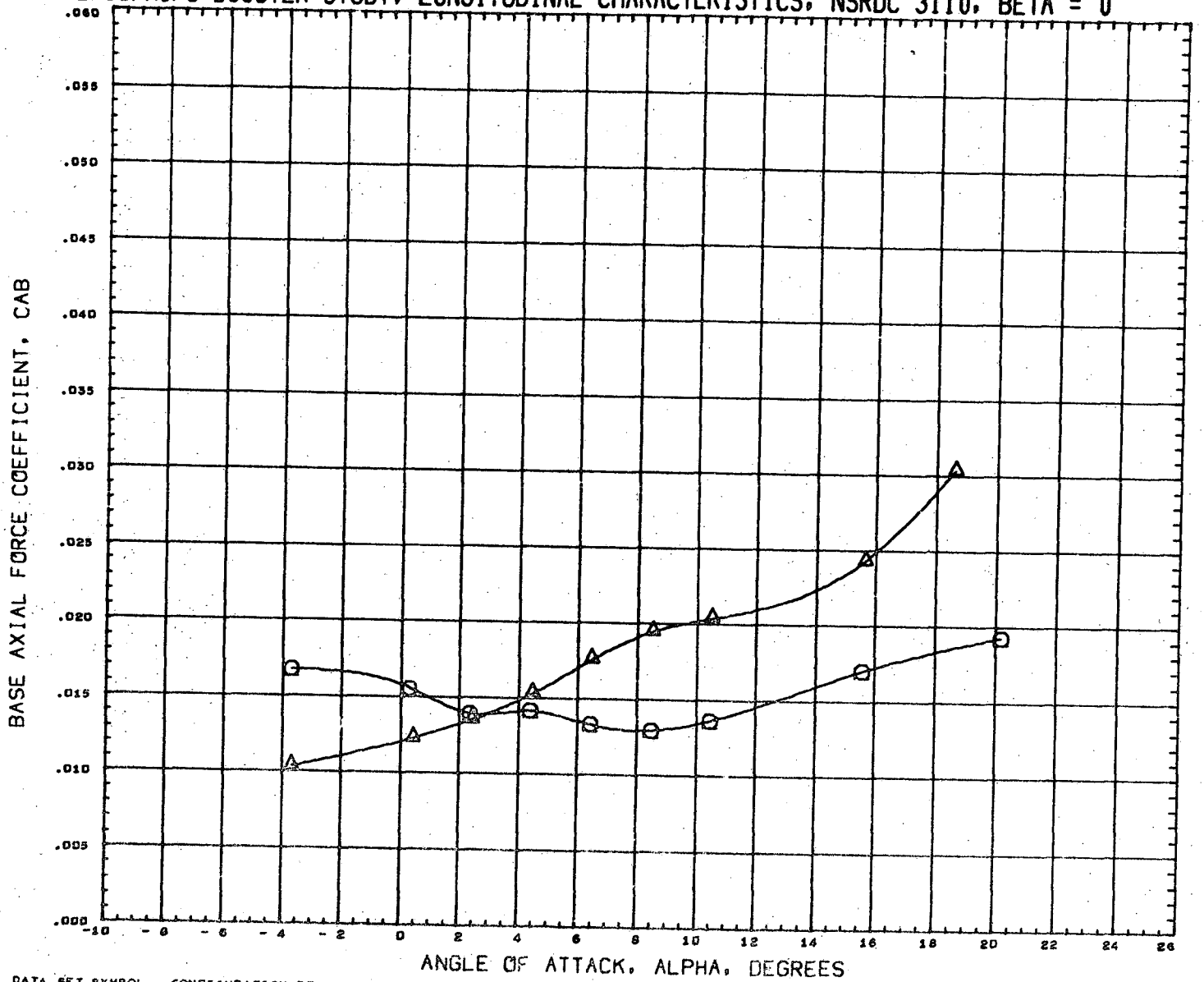
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2021)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2021)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

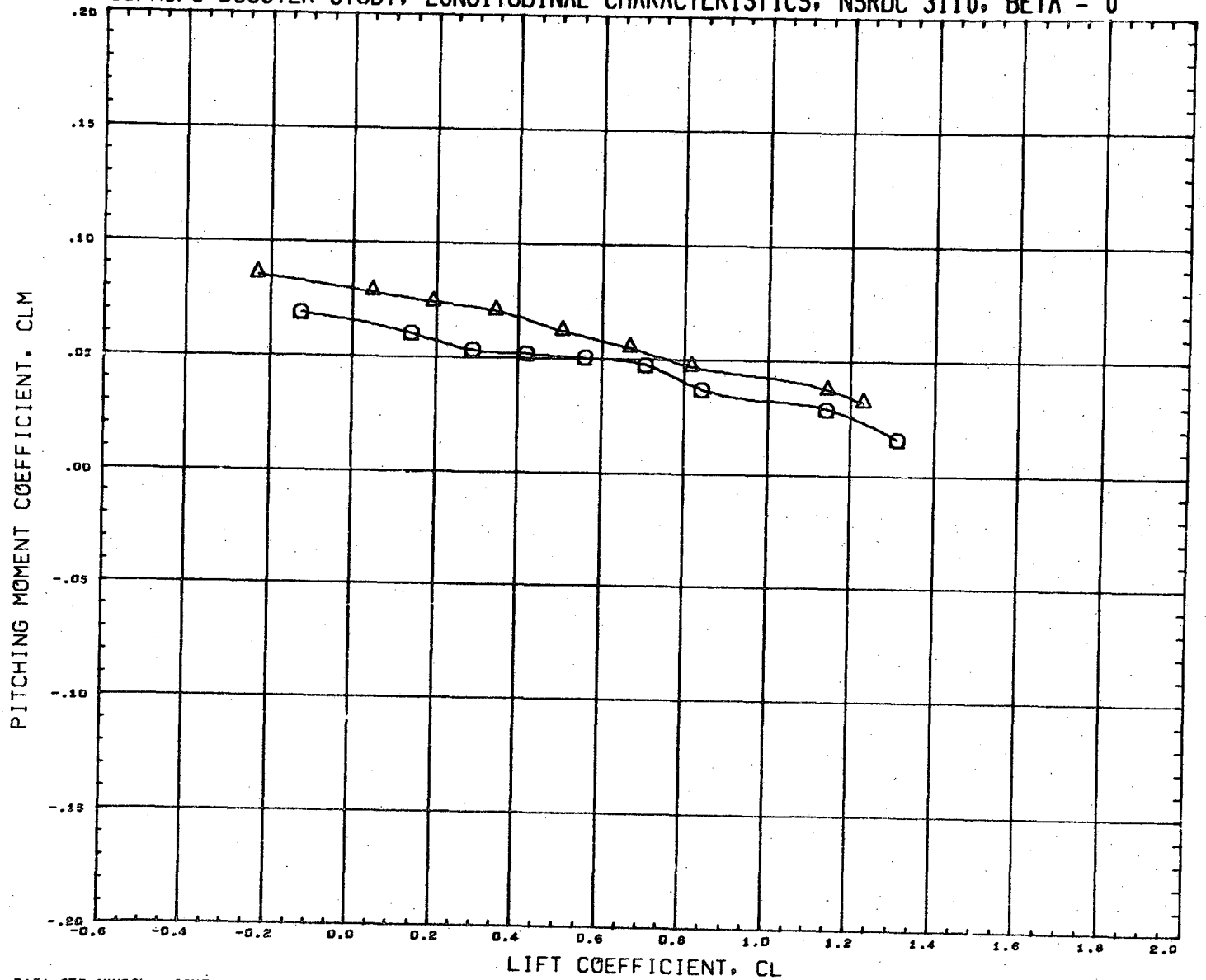
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



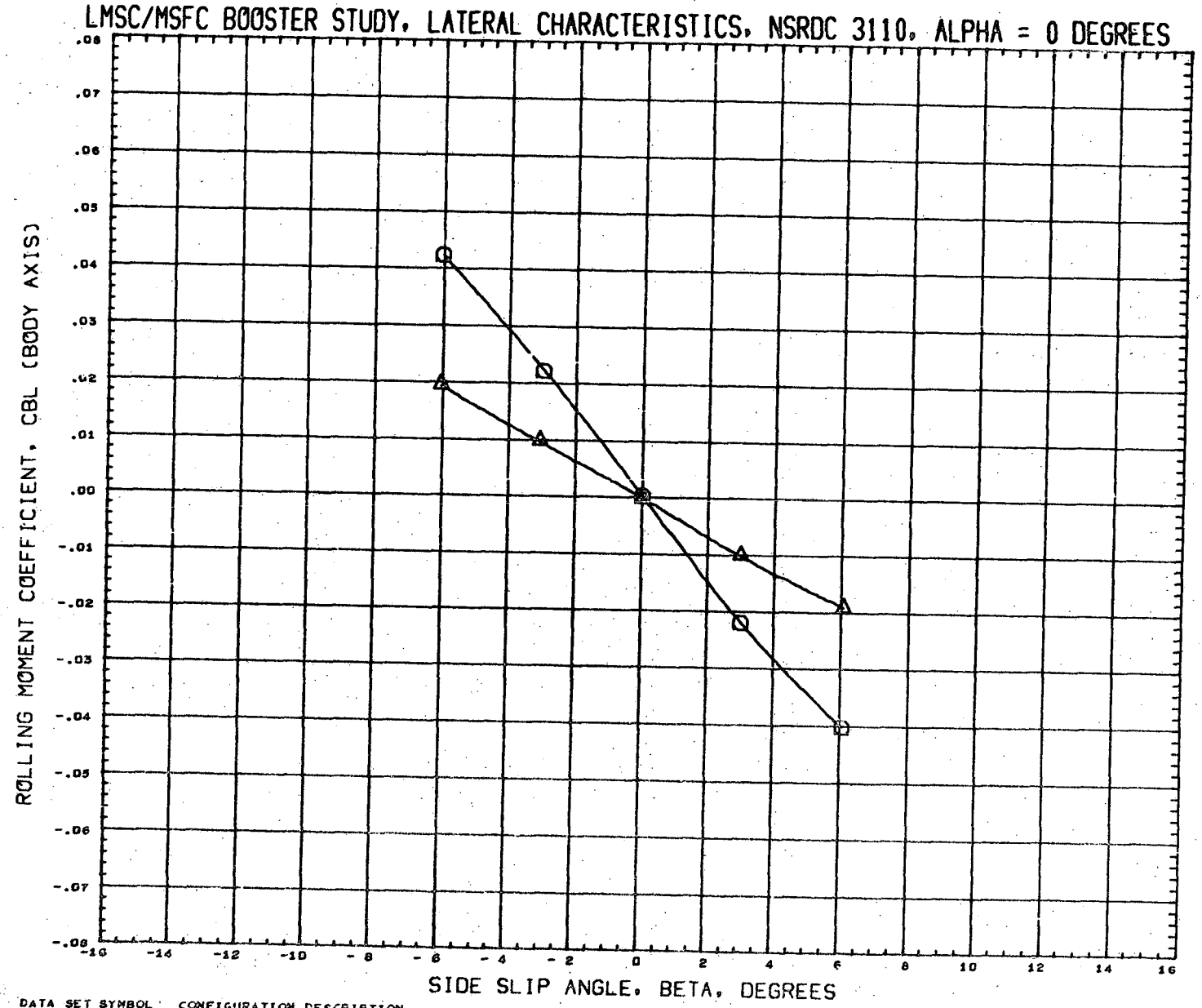
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2021)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

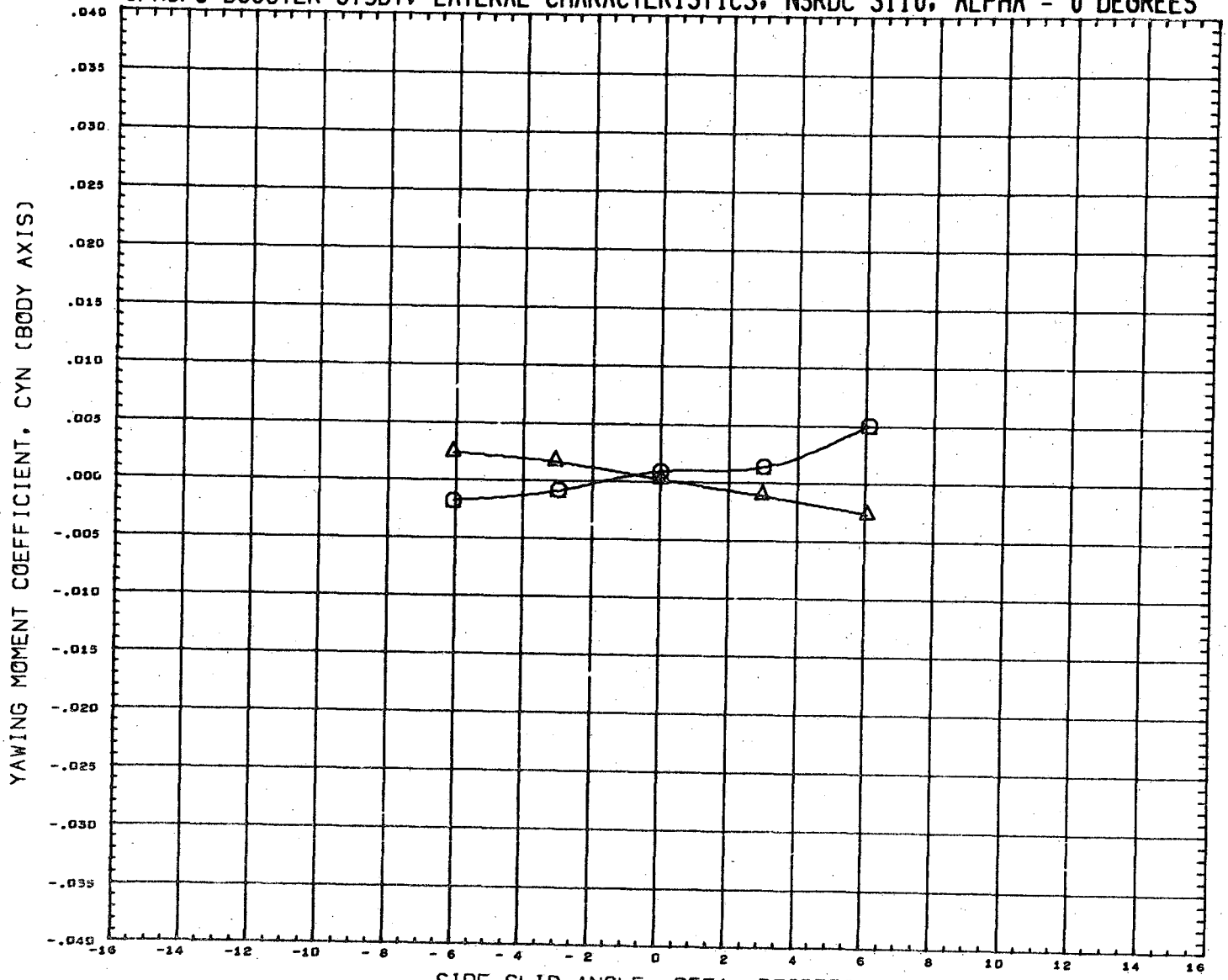


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2006)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2022)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

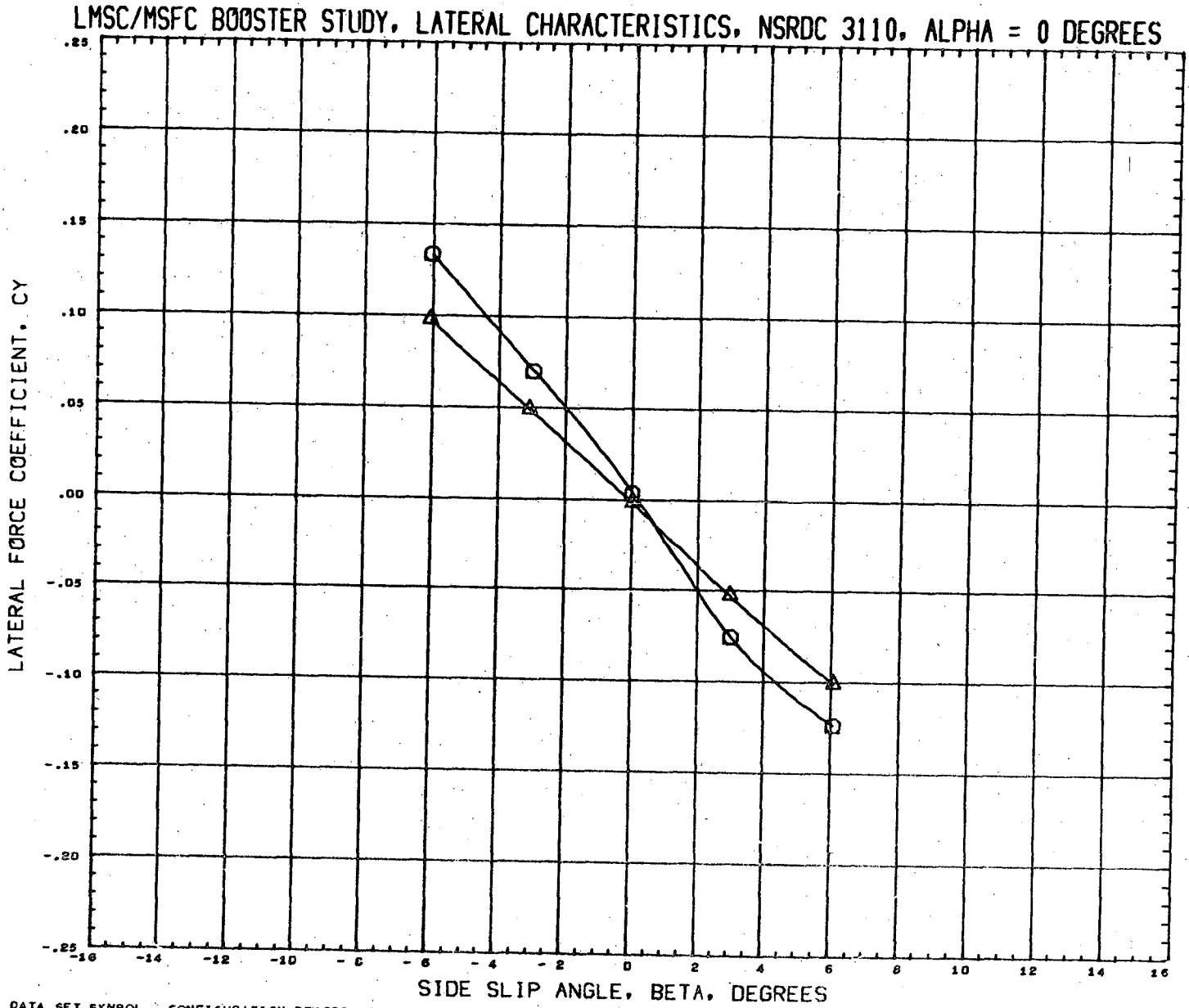
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2006)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2022)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

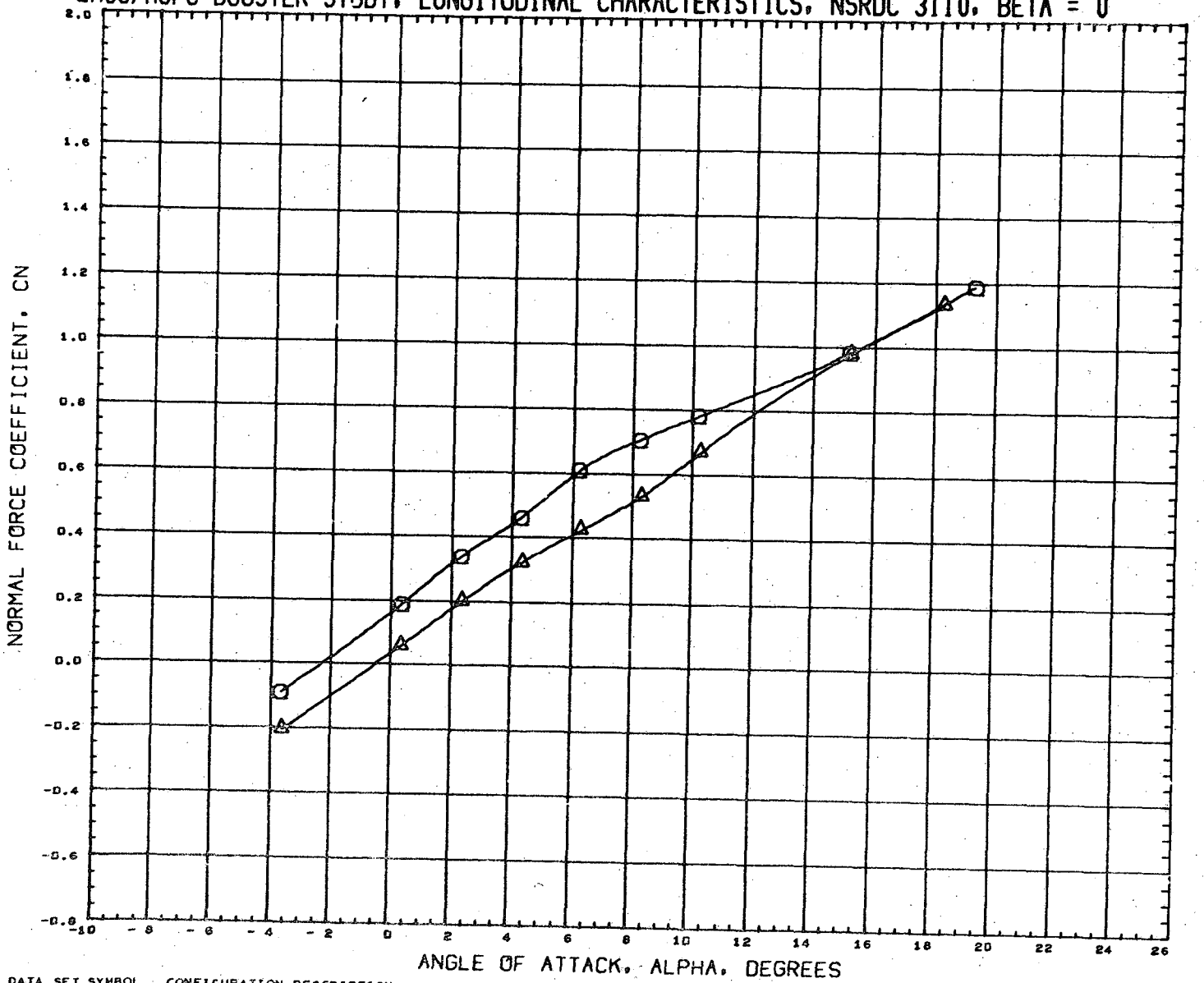


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2006)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2022)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

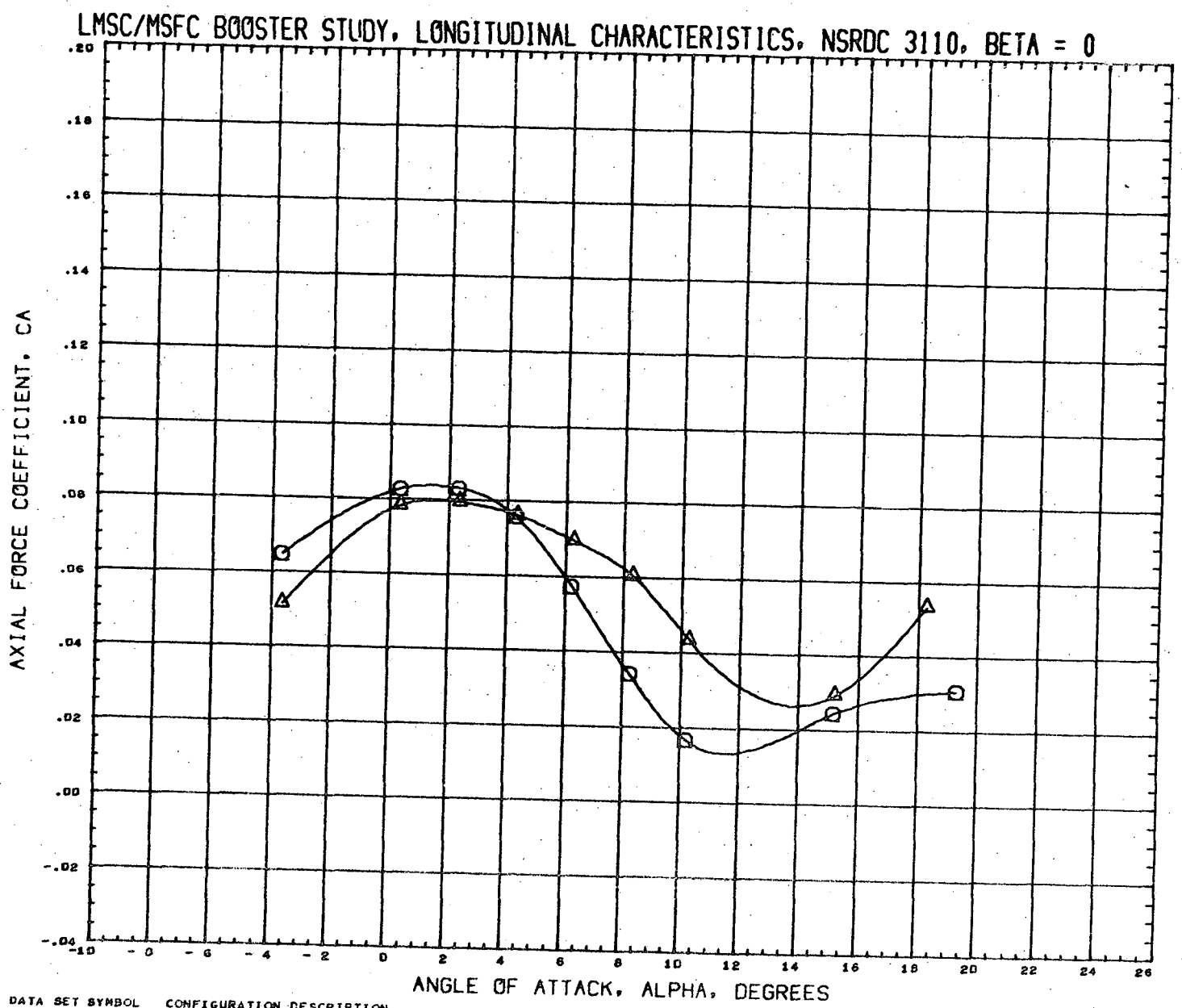
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2029)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.382

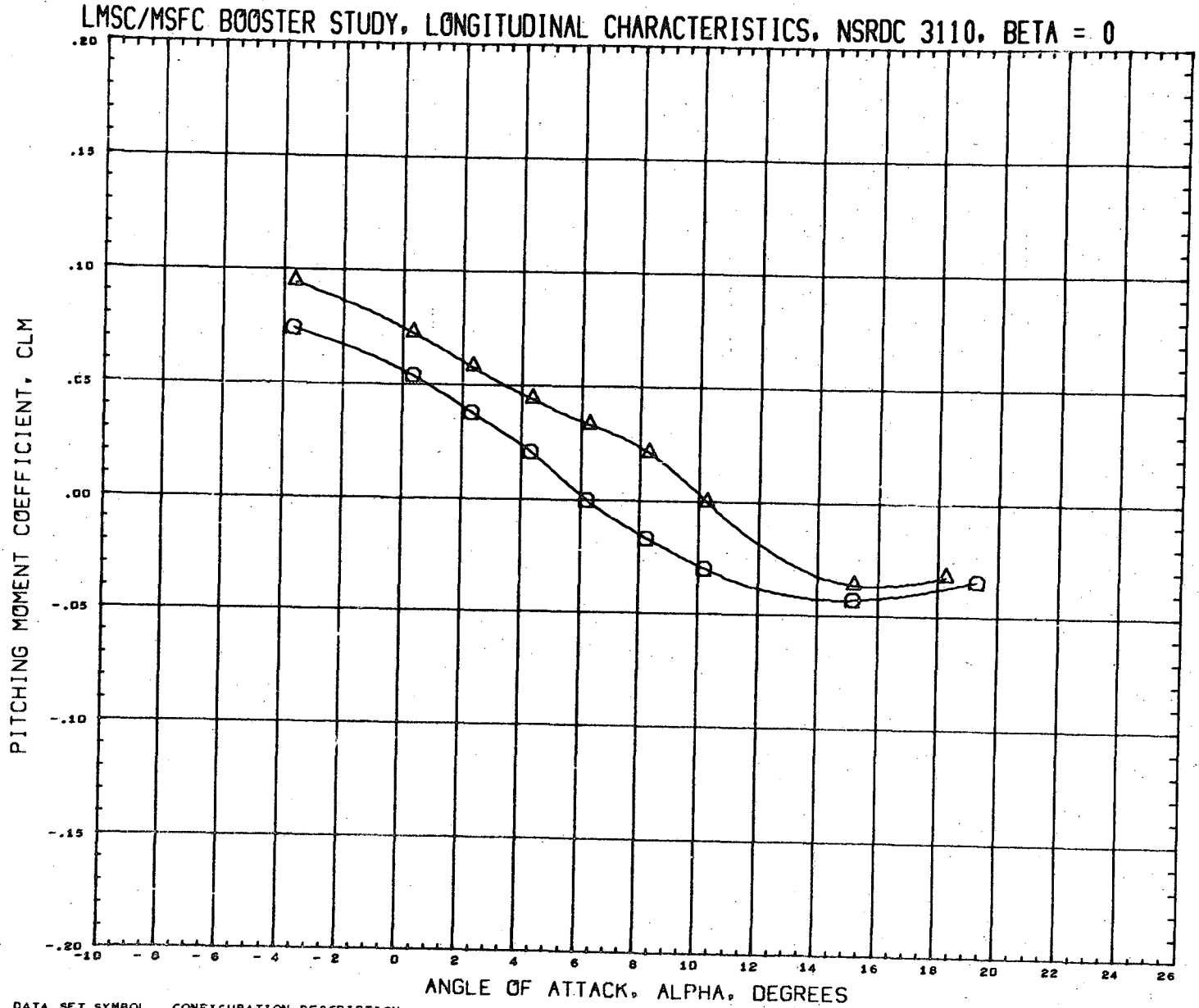
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2029)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

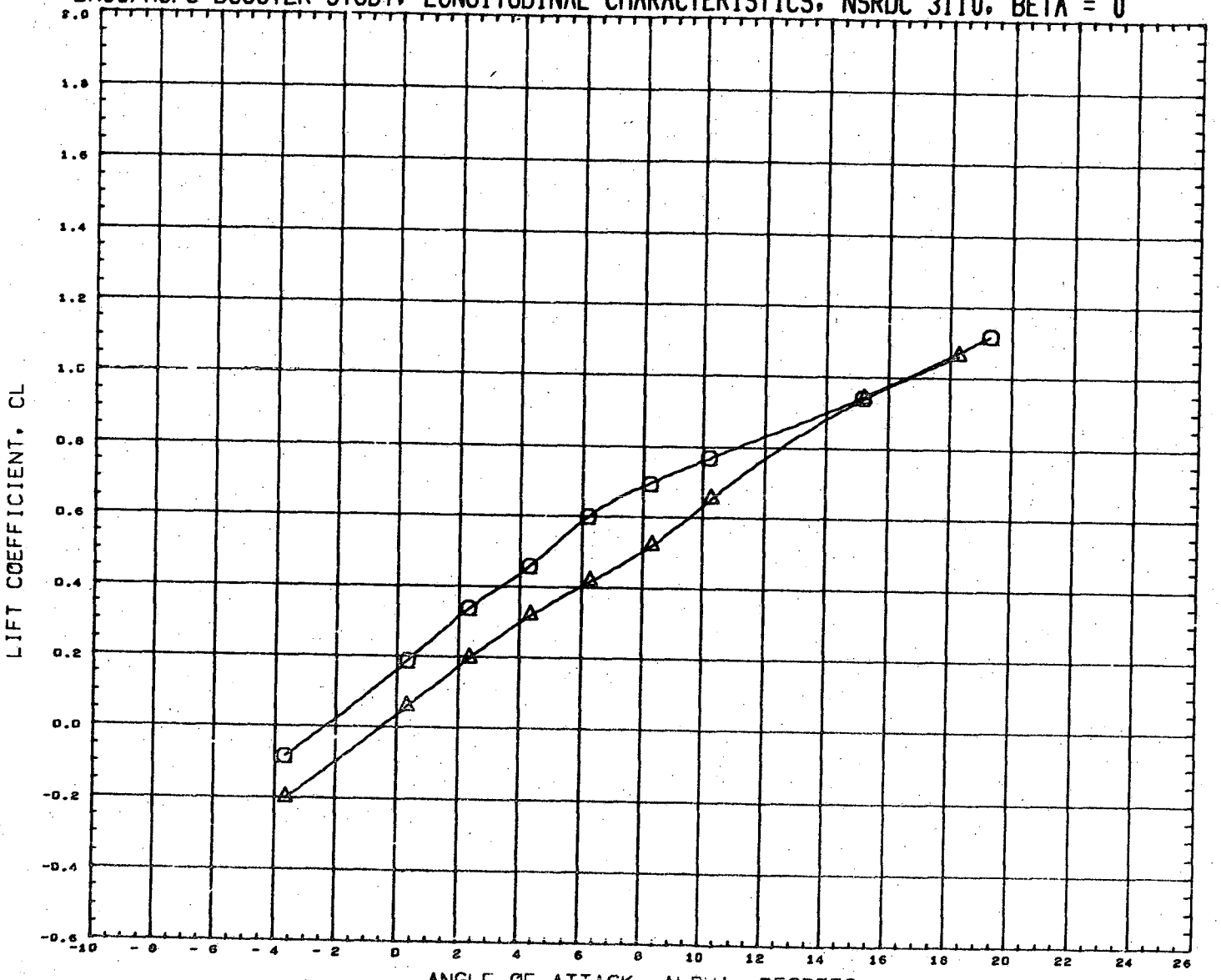


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

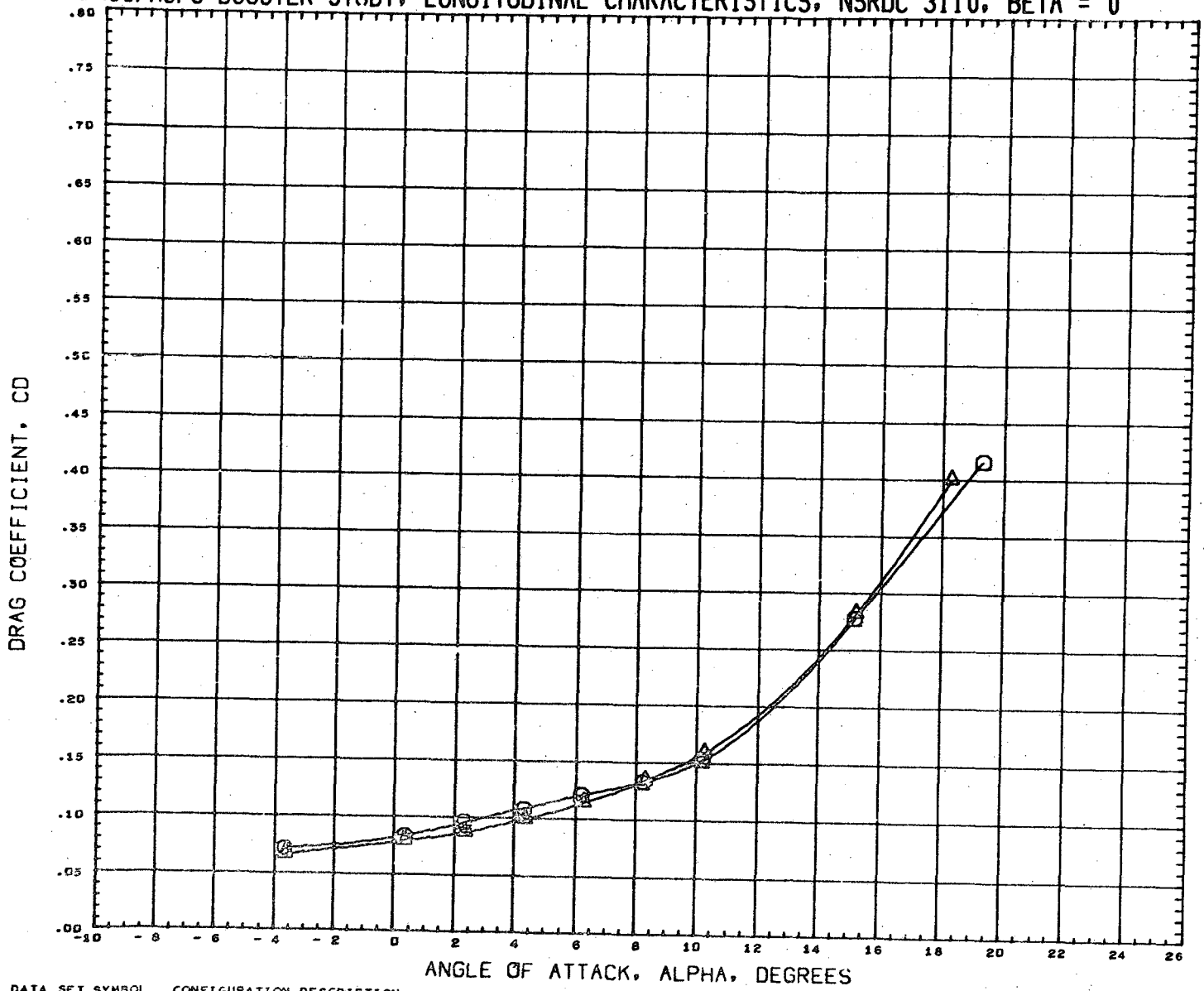


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2029)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



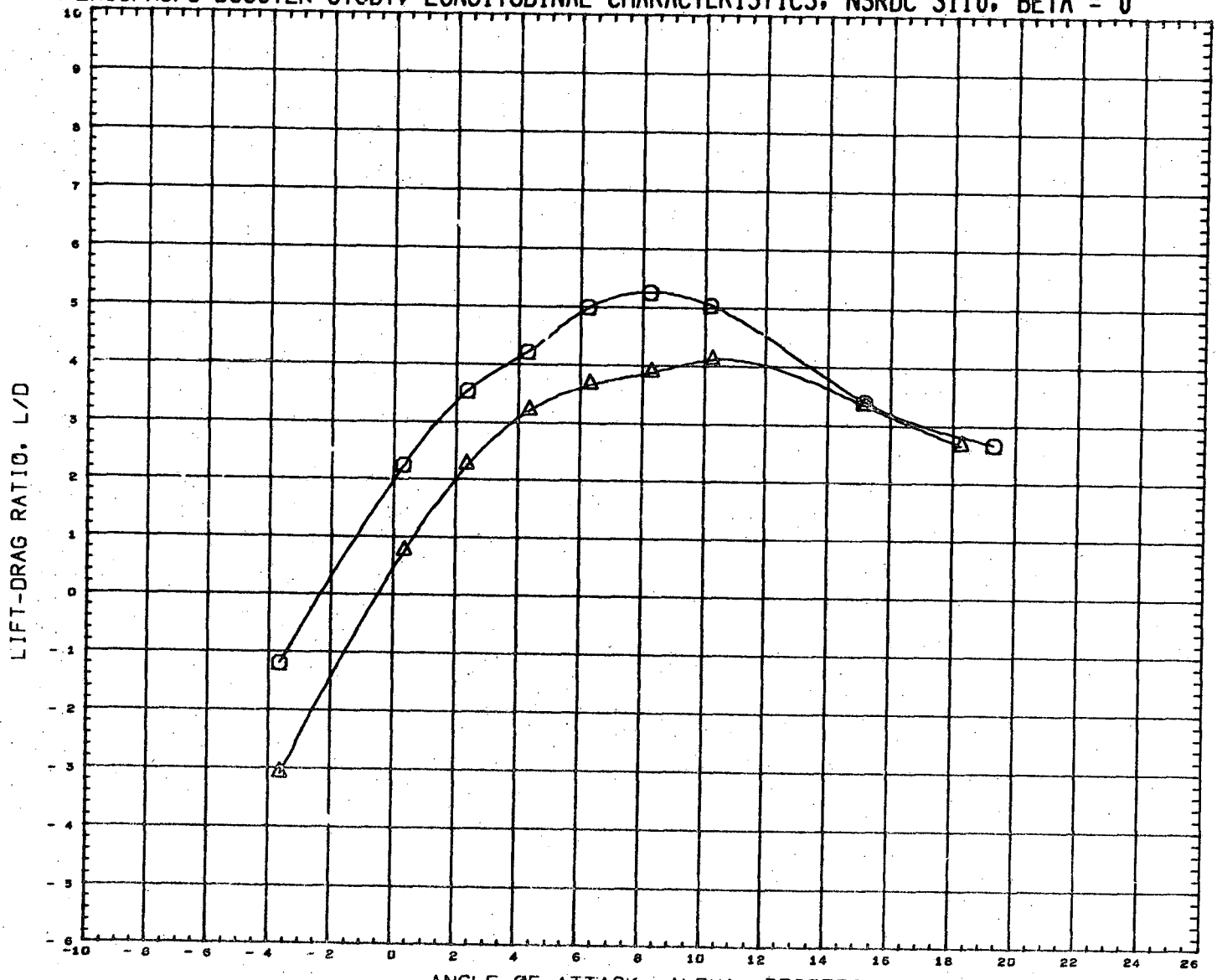
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2029)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

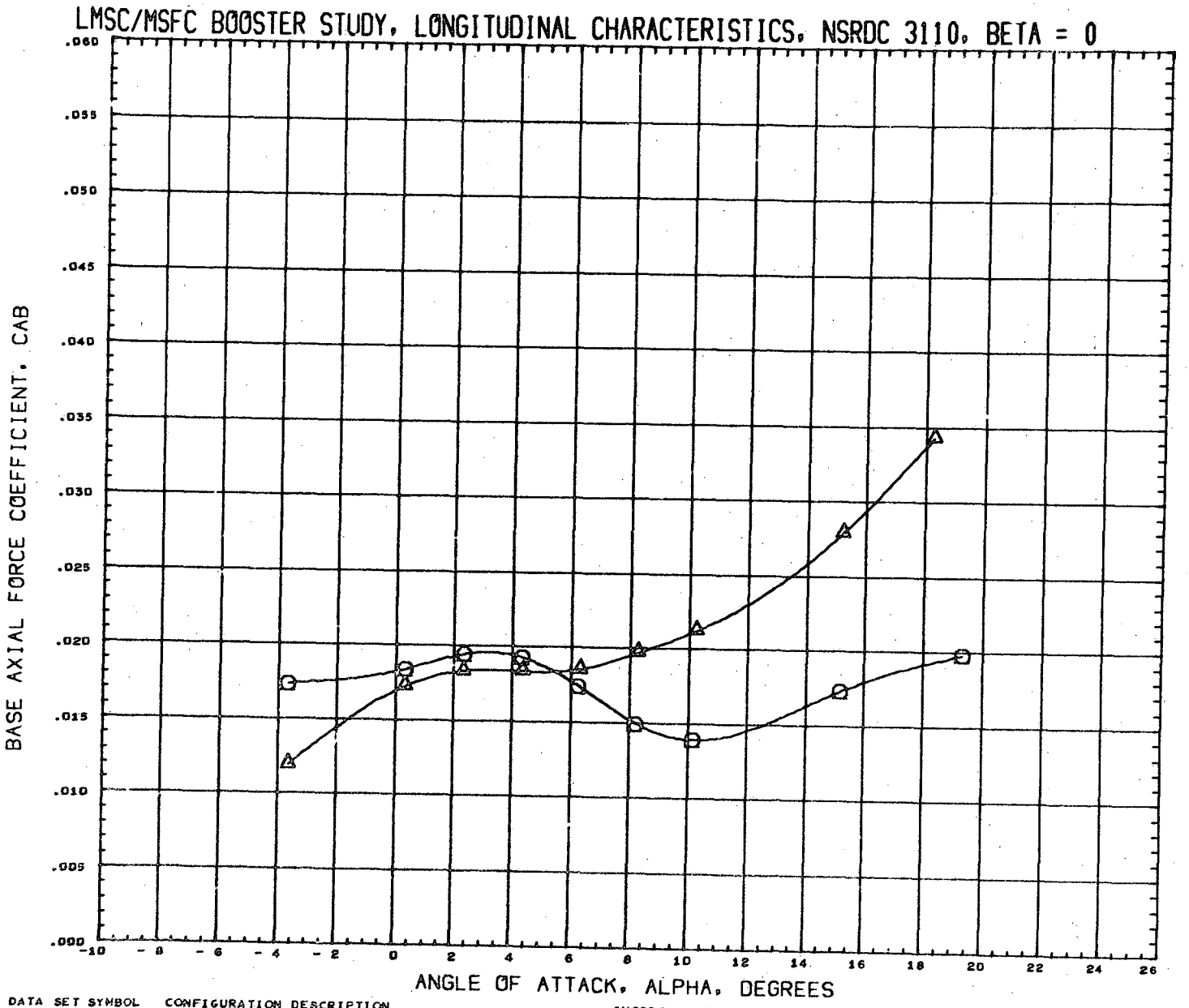
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2029)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2029)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

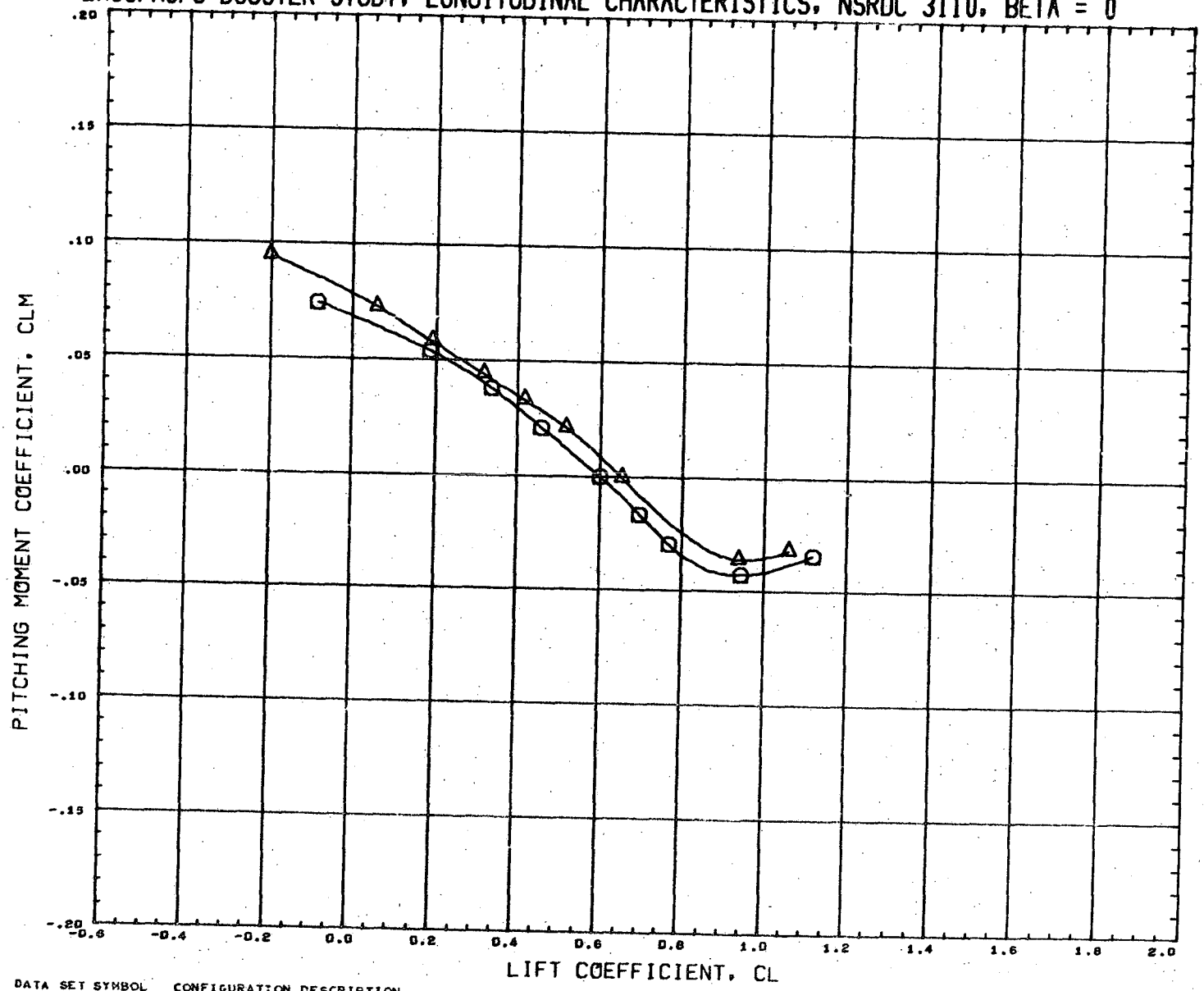
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

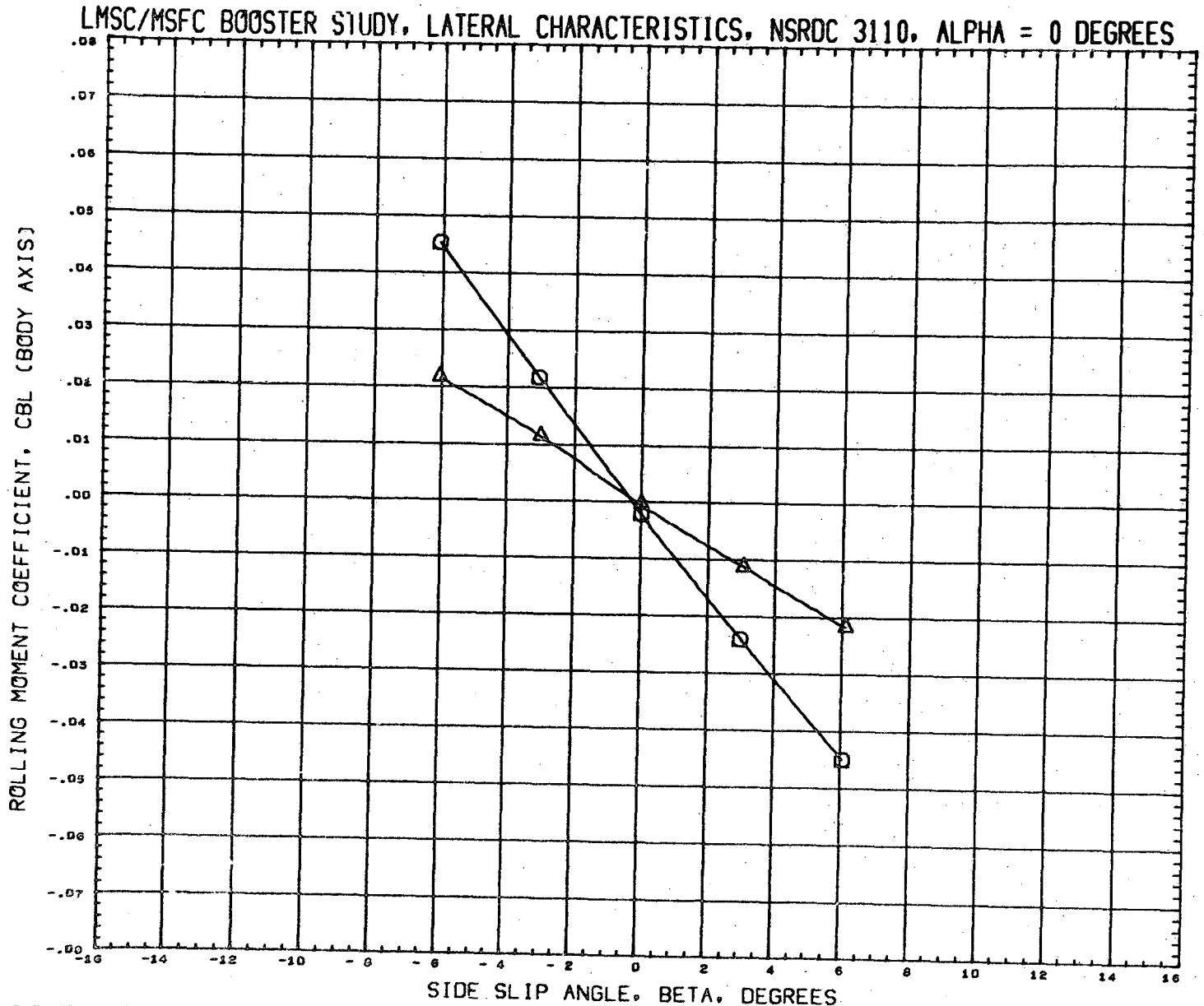
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2029)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

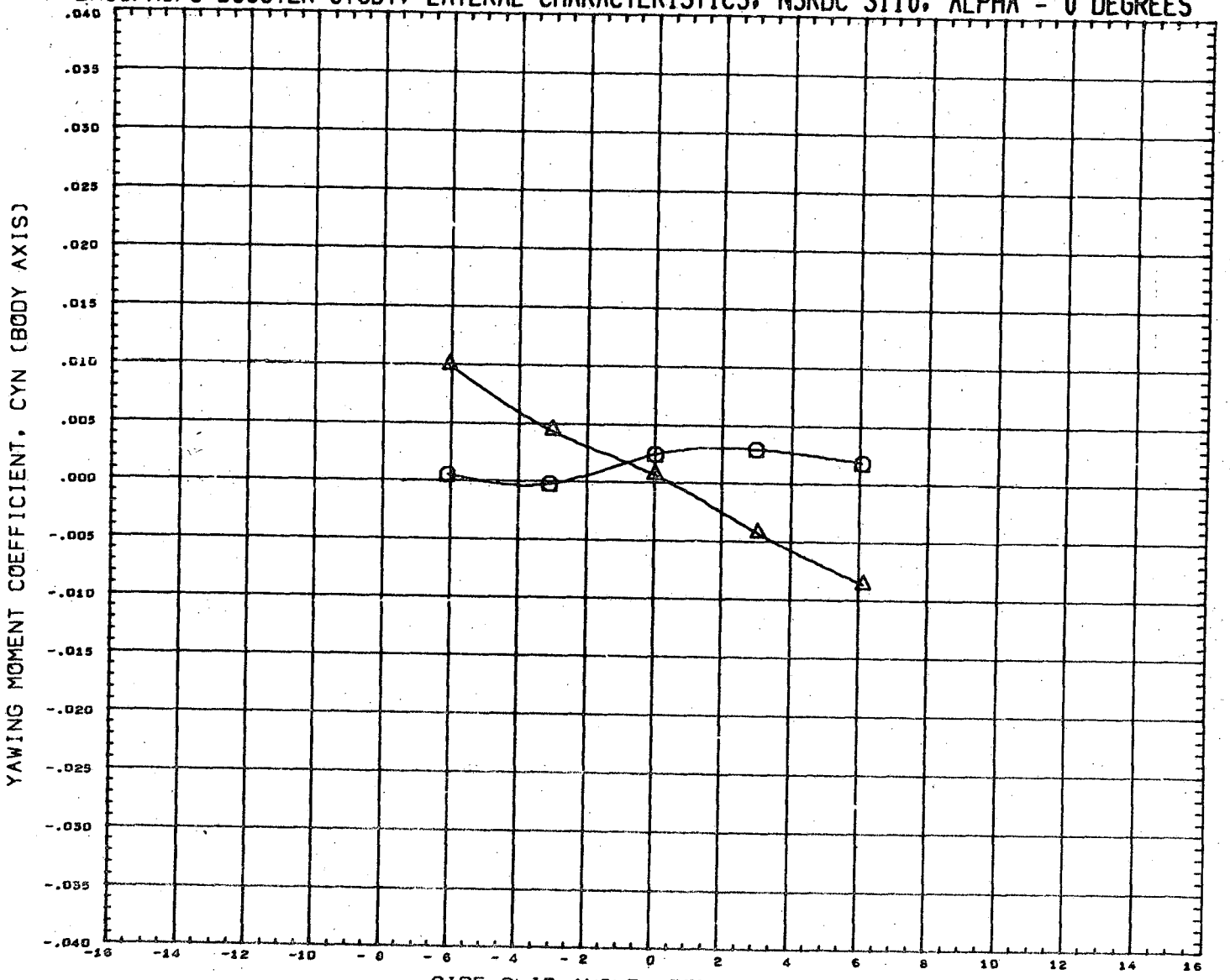


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2014)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2030)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

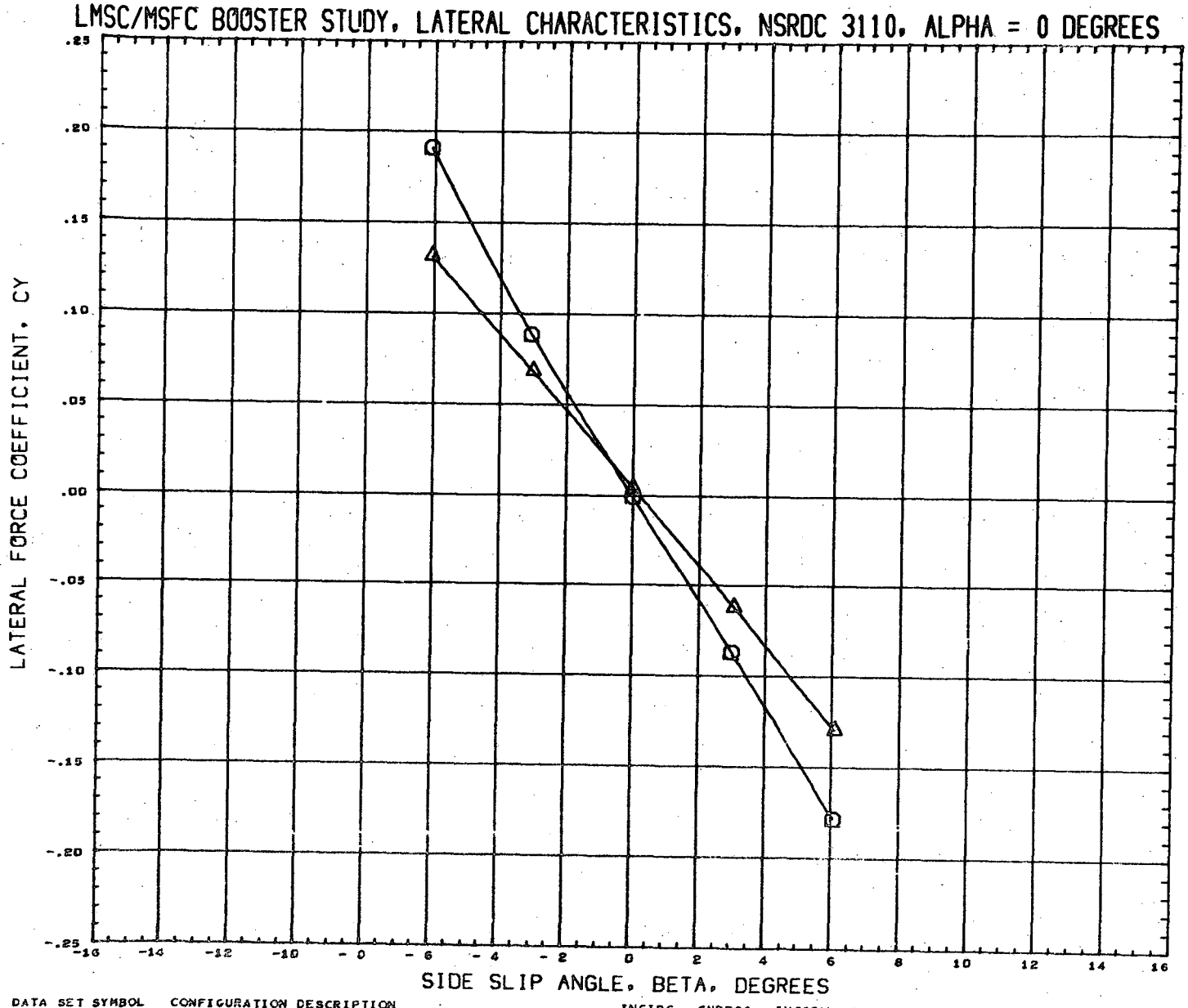
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2014)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2030)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

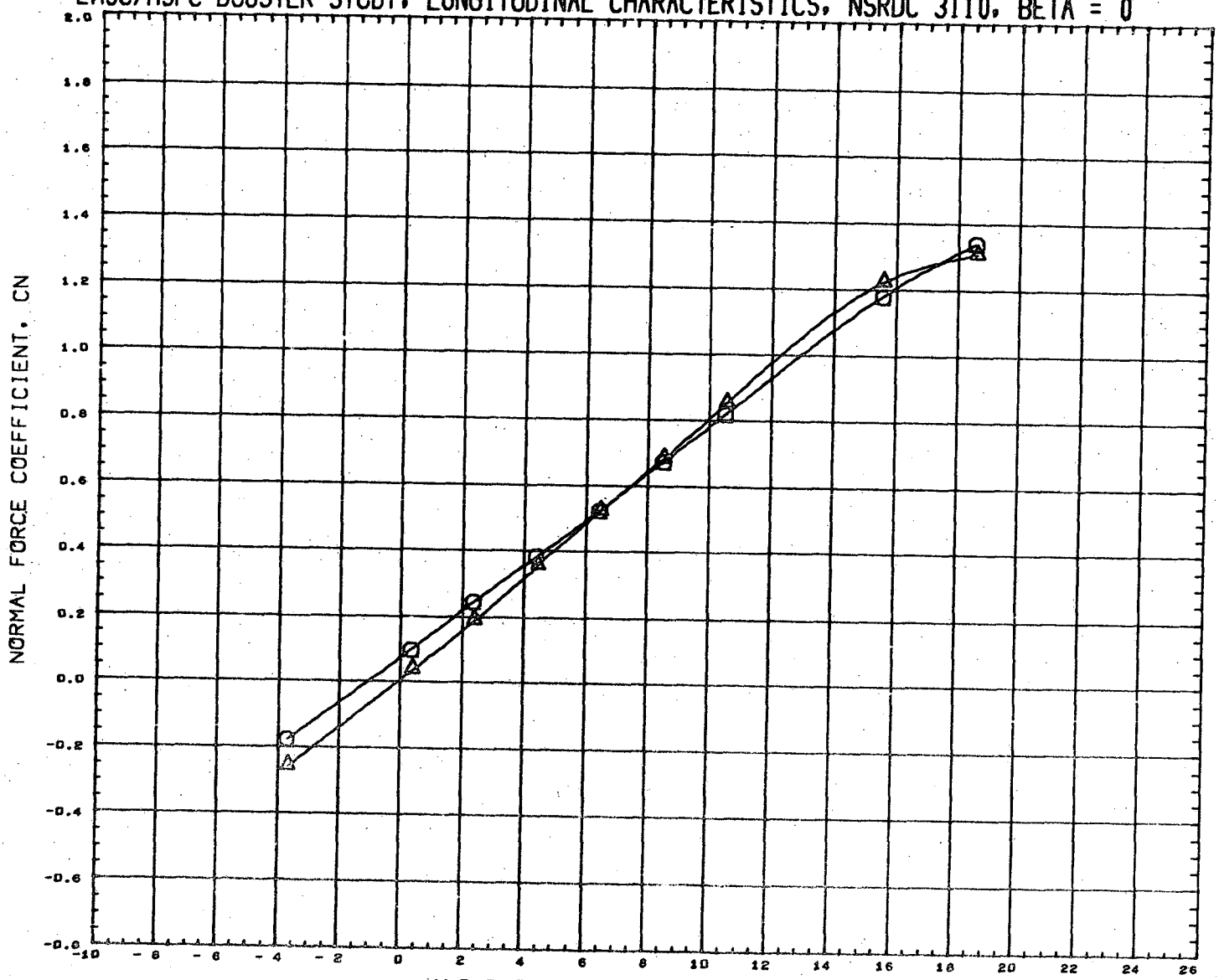


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2014)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2030)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

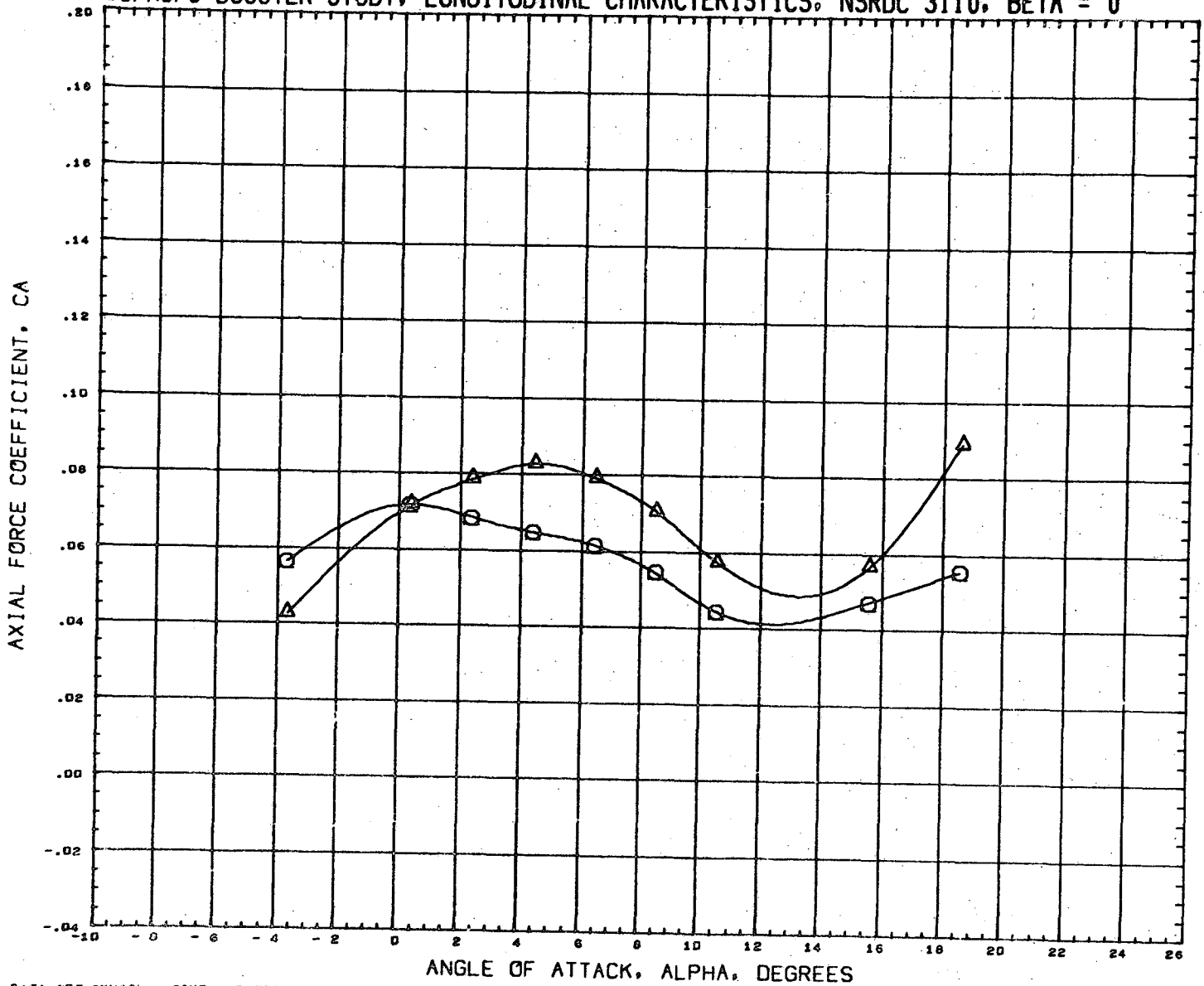


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2197)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2213)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

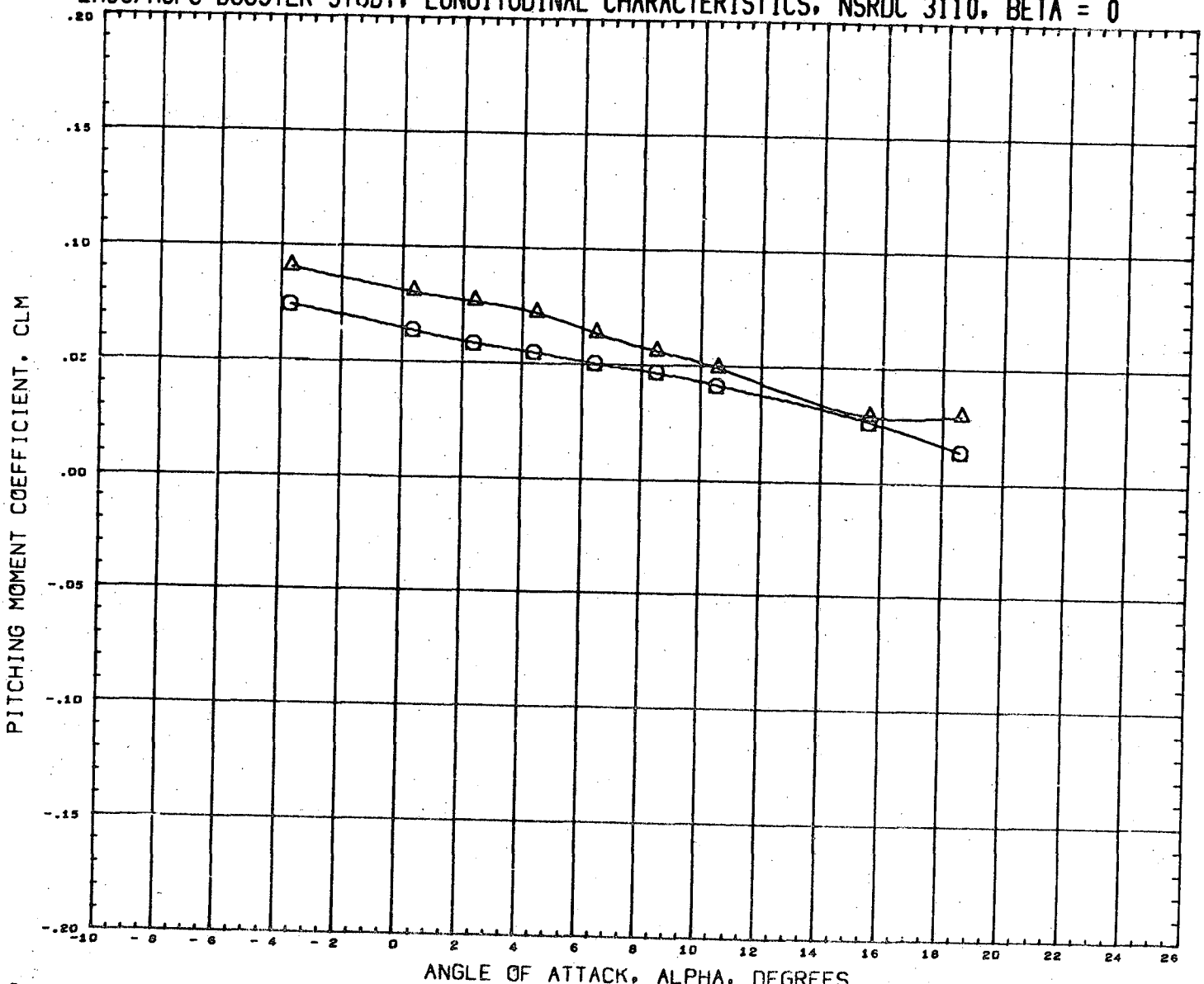


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS
(RN2197) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2213) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

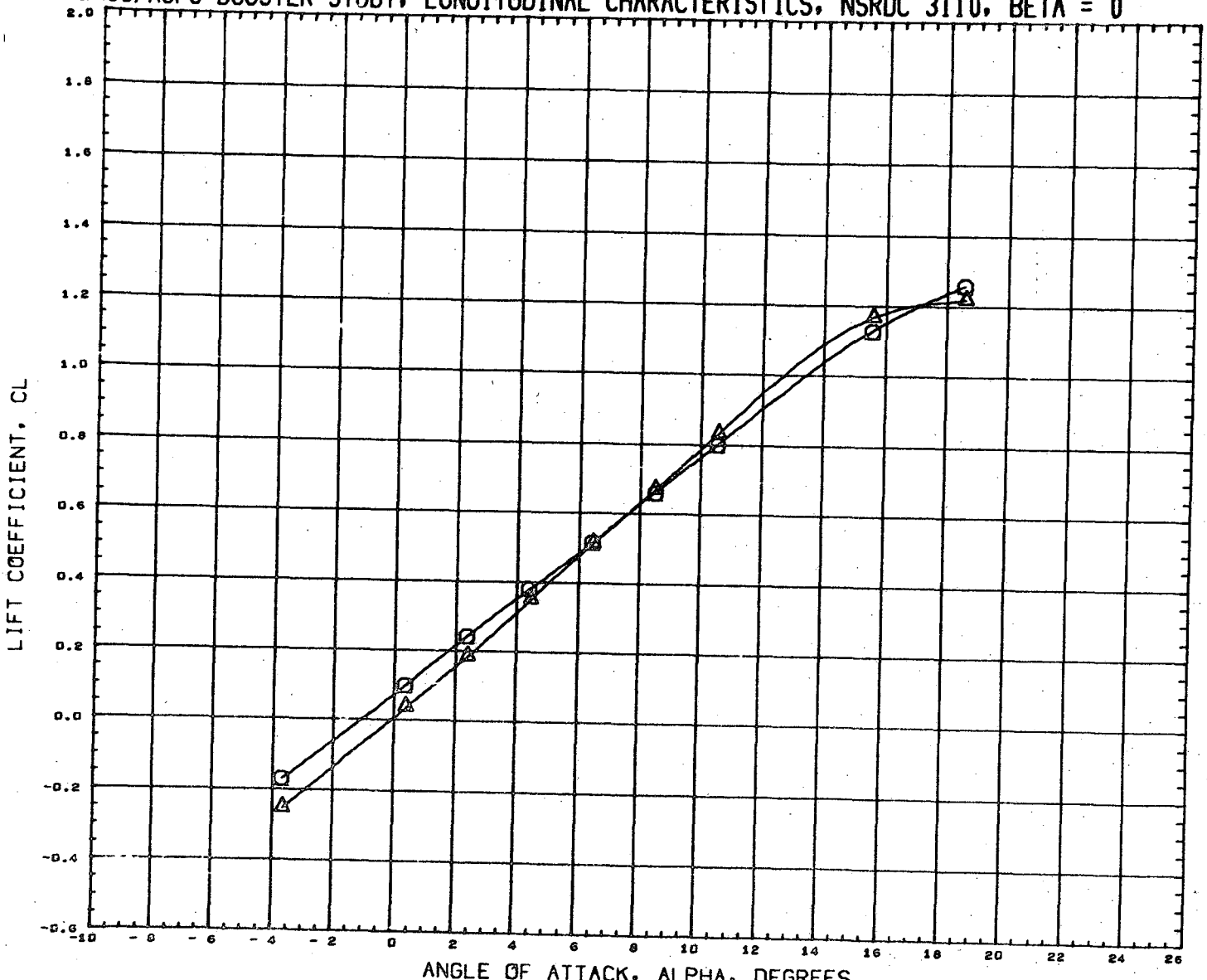


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2197)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2213)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

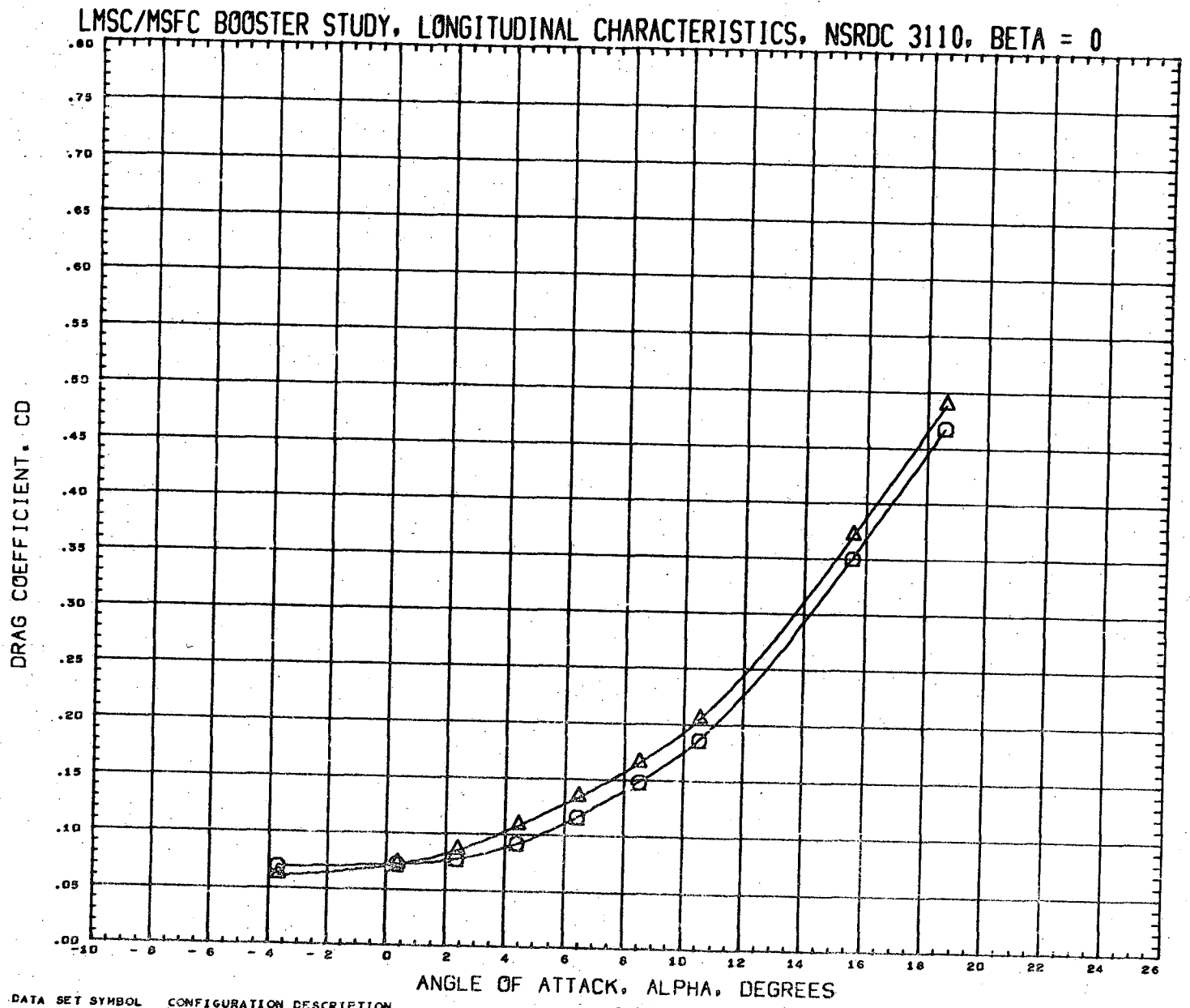
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2197)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2213)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.361

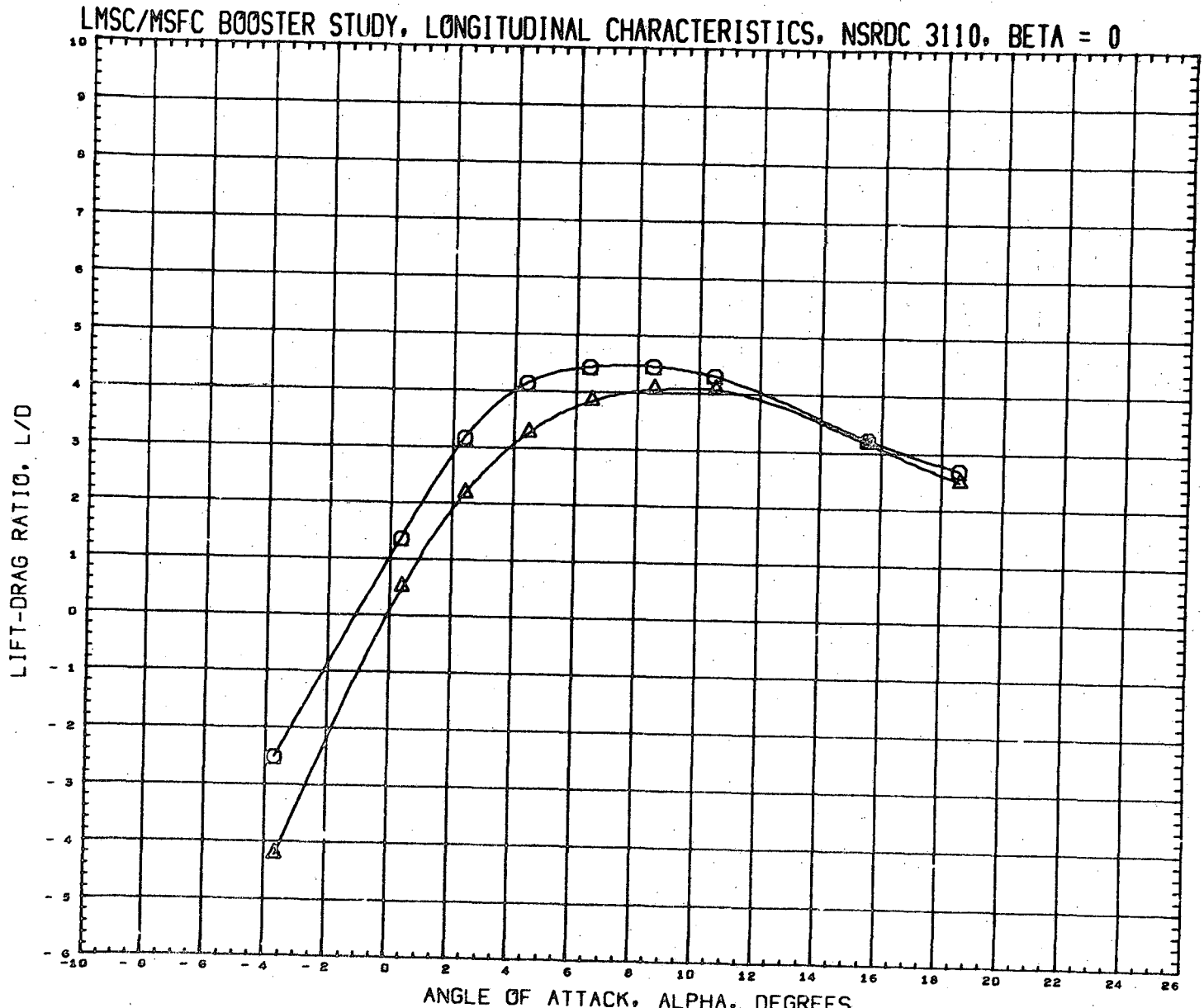
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2197)	○	M5RDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2213)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

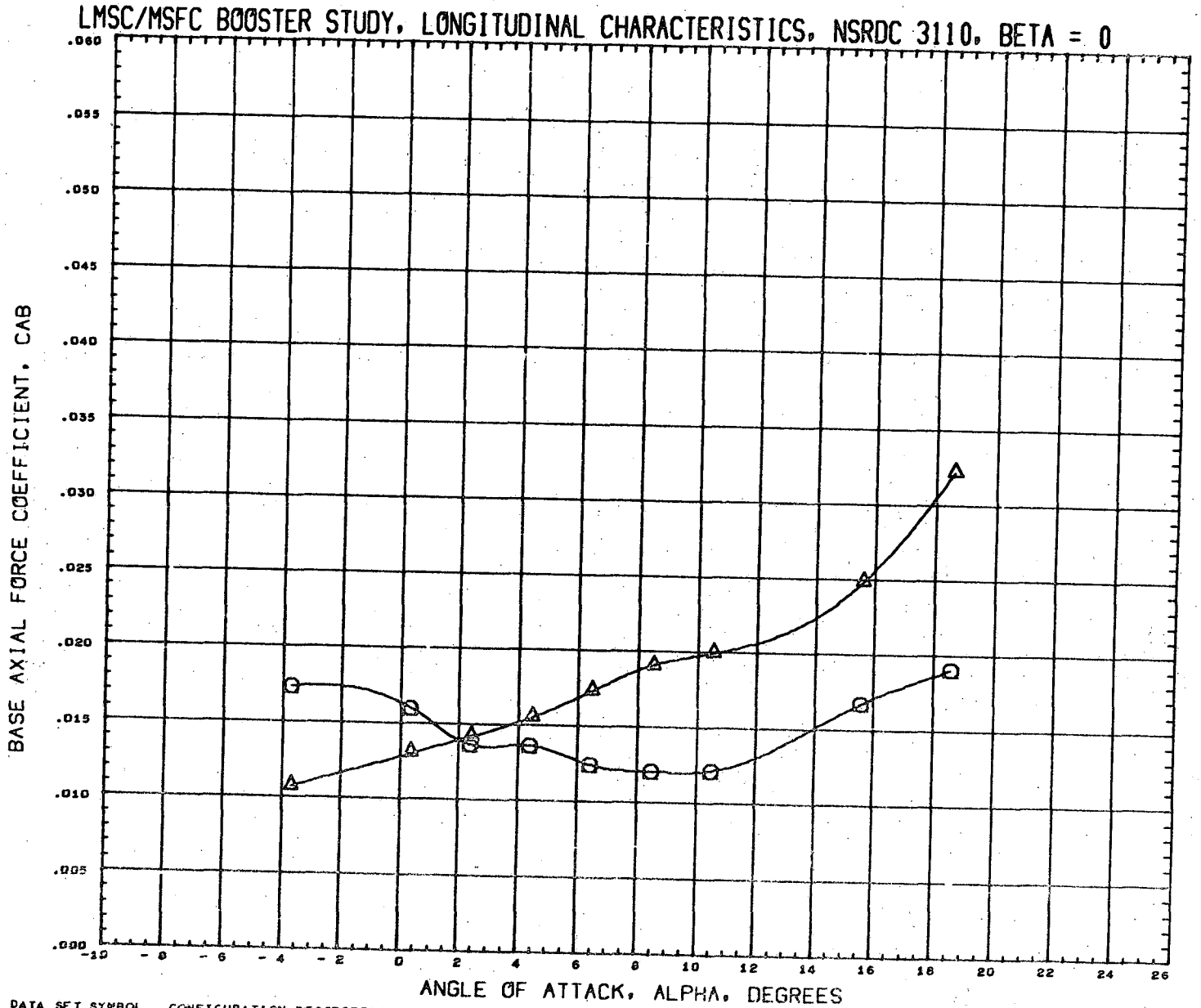
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2197)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2213)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

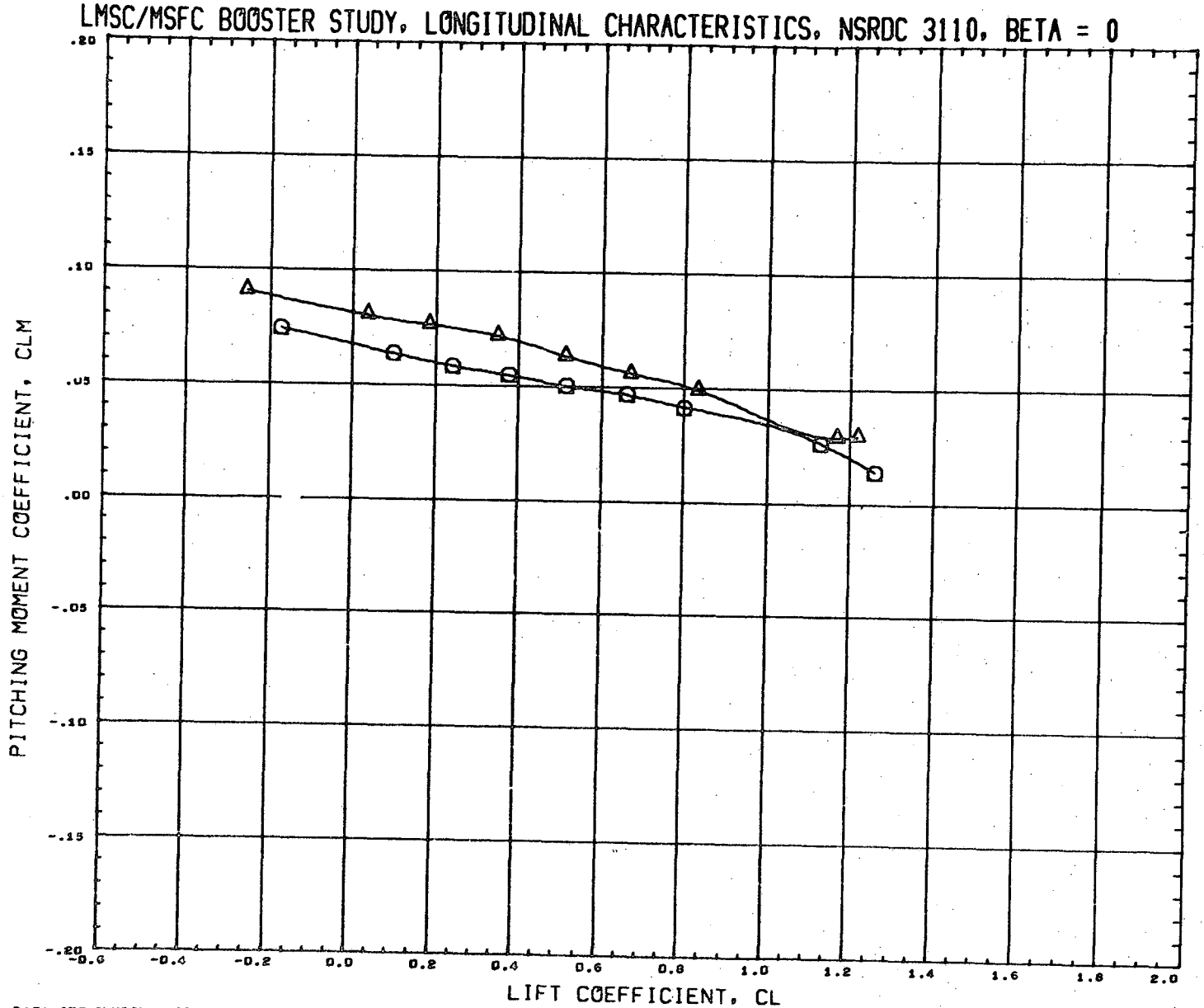
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2197) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2213) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.301

REFERENCE INFORMATION		
SREF	1.3350	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31..400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2850	INCHES
SCALE	1.5000	PERCNT

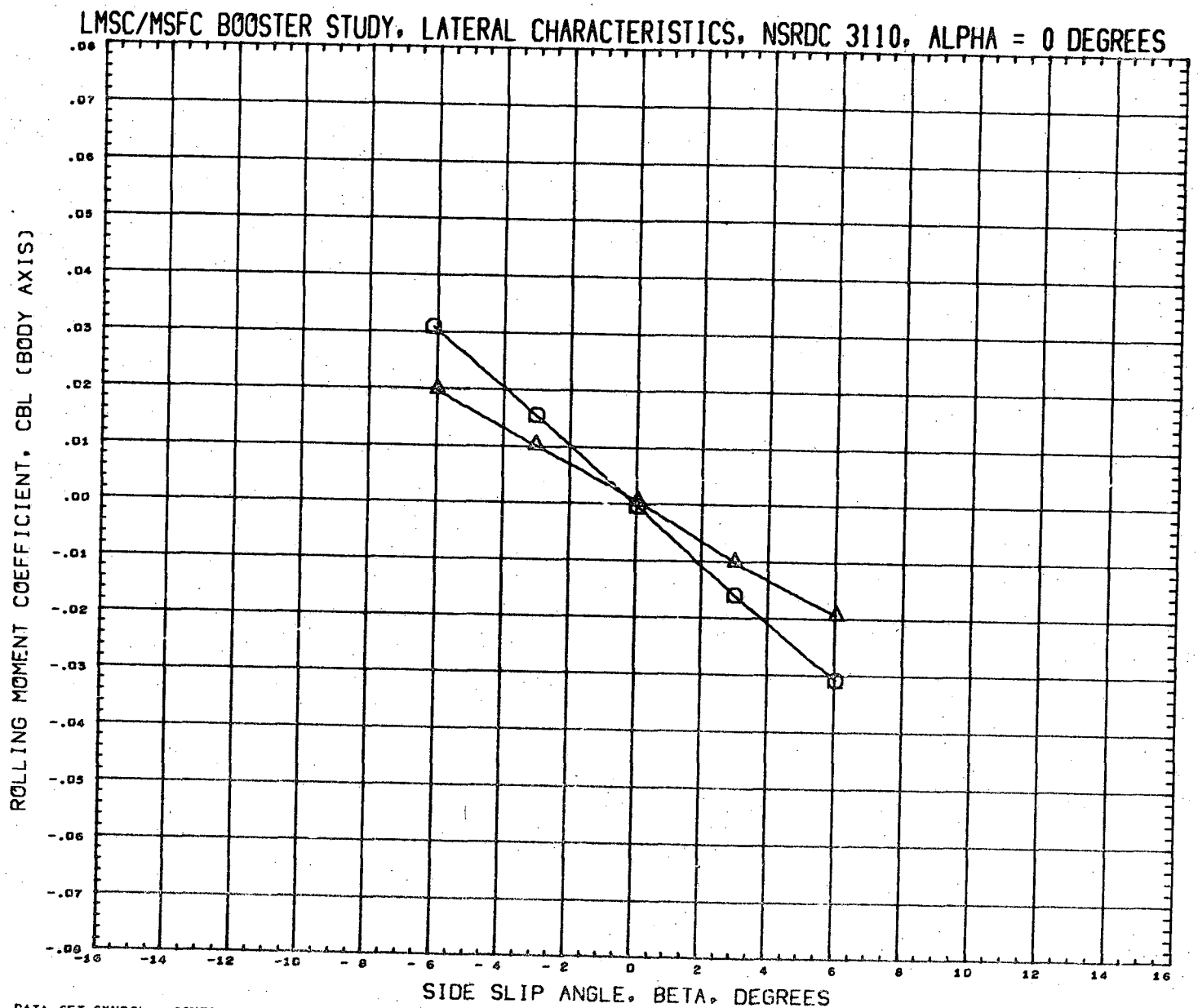


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2197)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2213)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.581

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

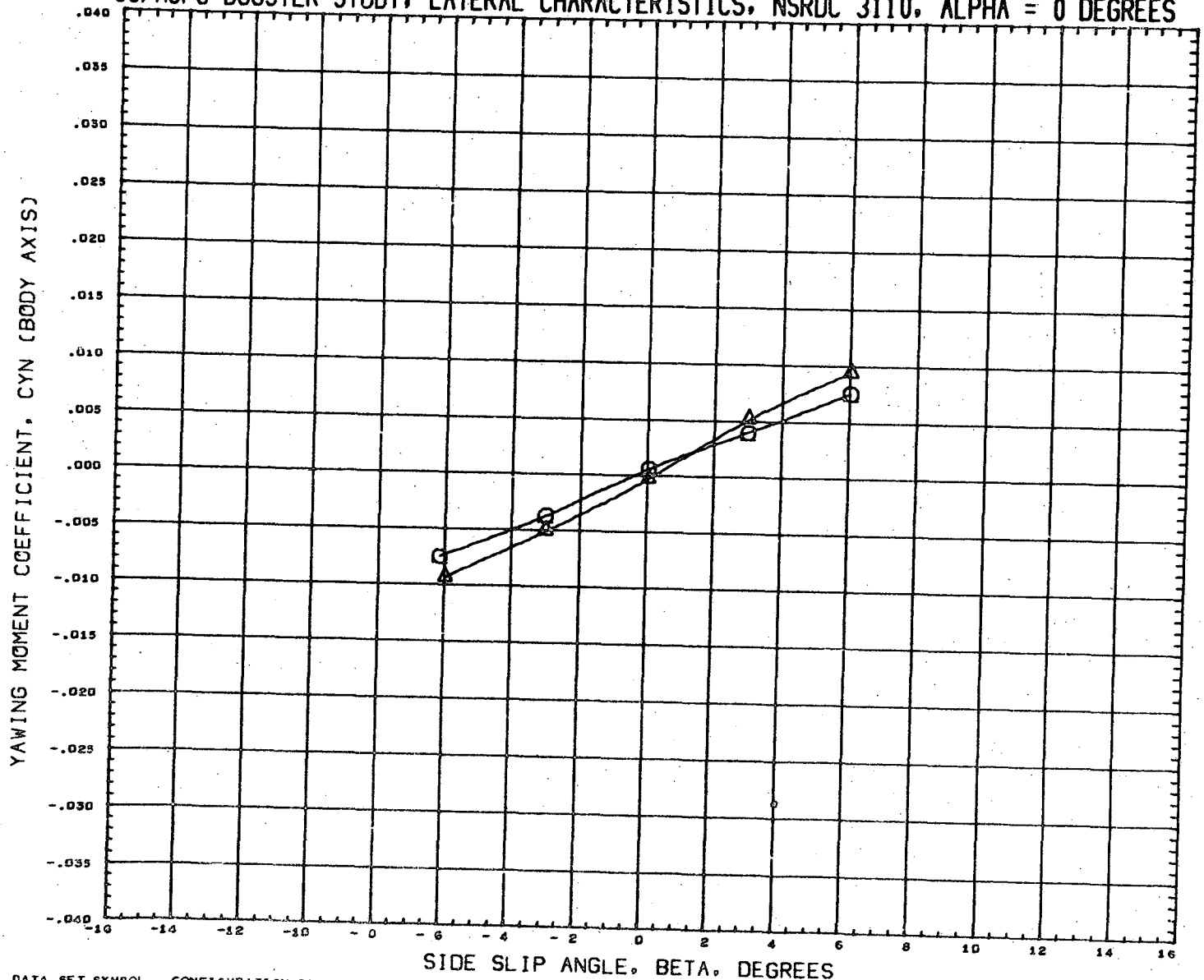


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2198)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2214)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

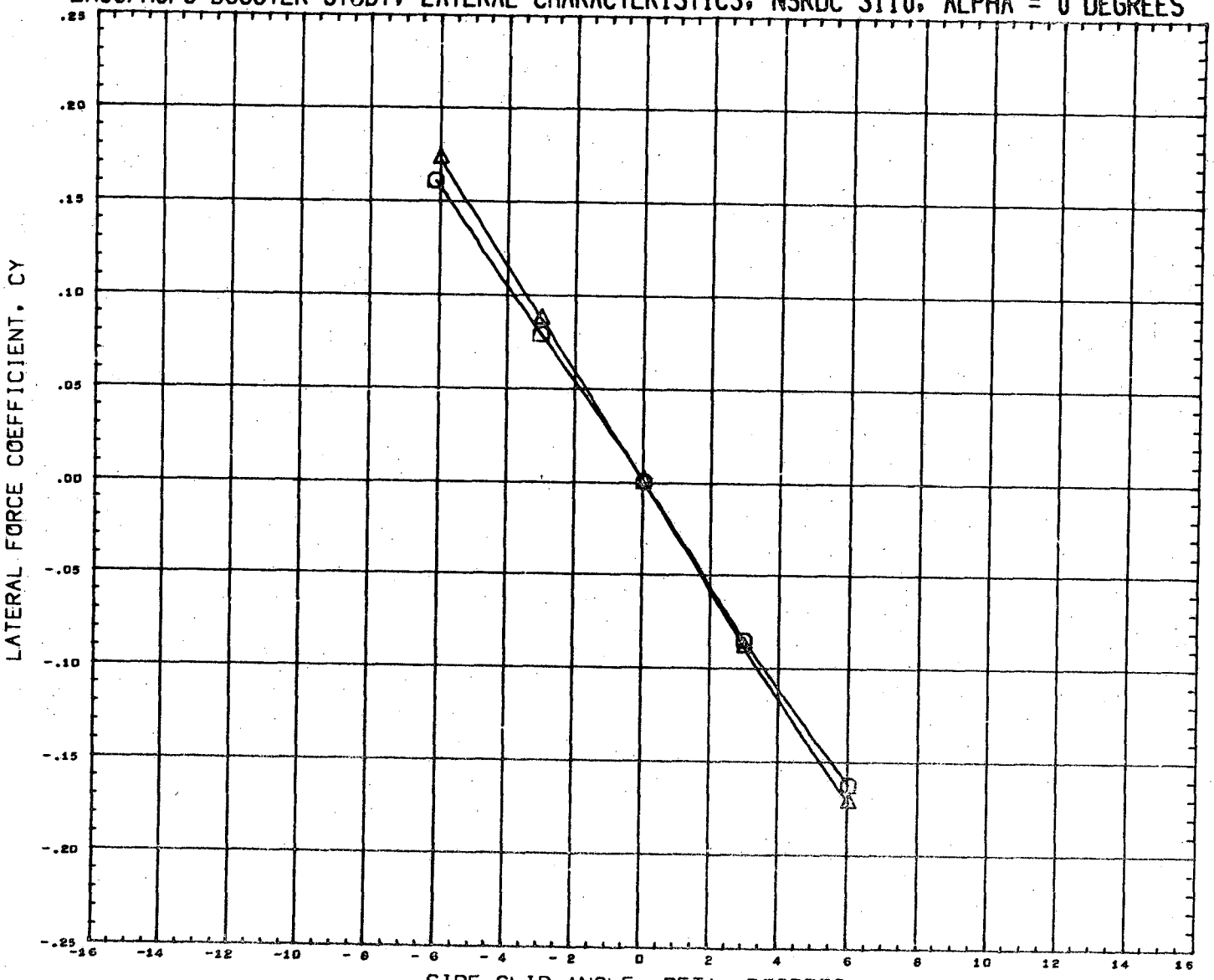


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2198)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2214)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

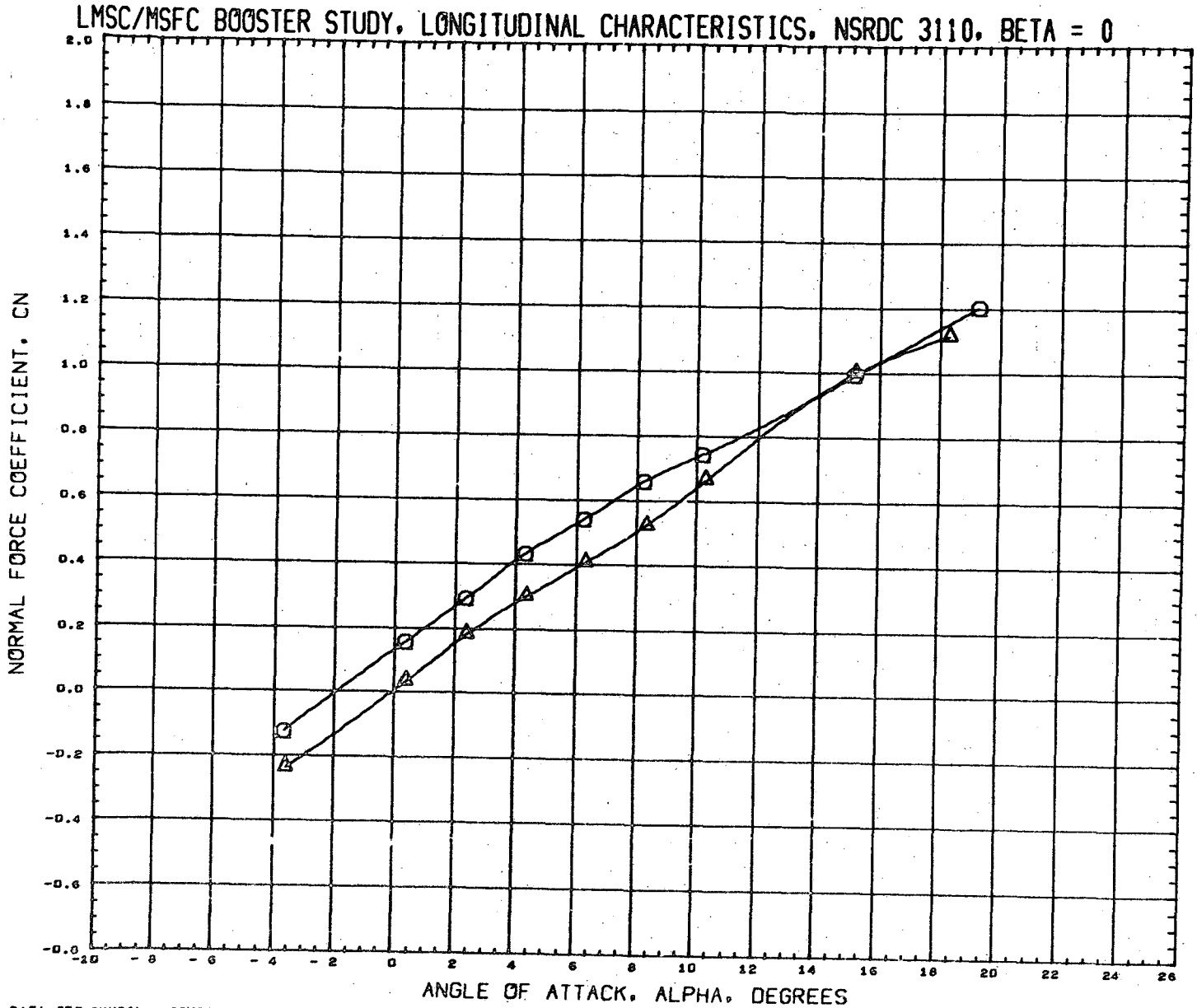


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2198)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000
(RN2214)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

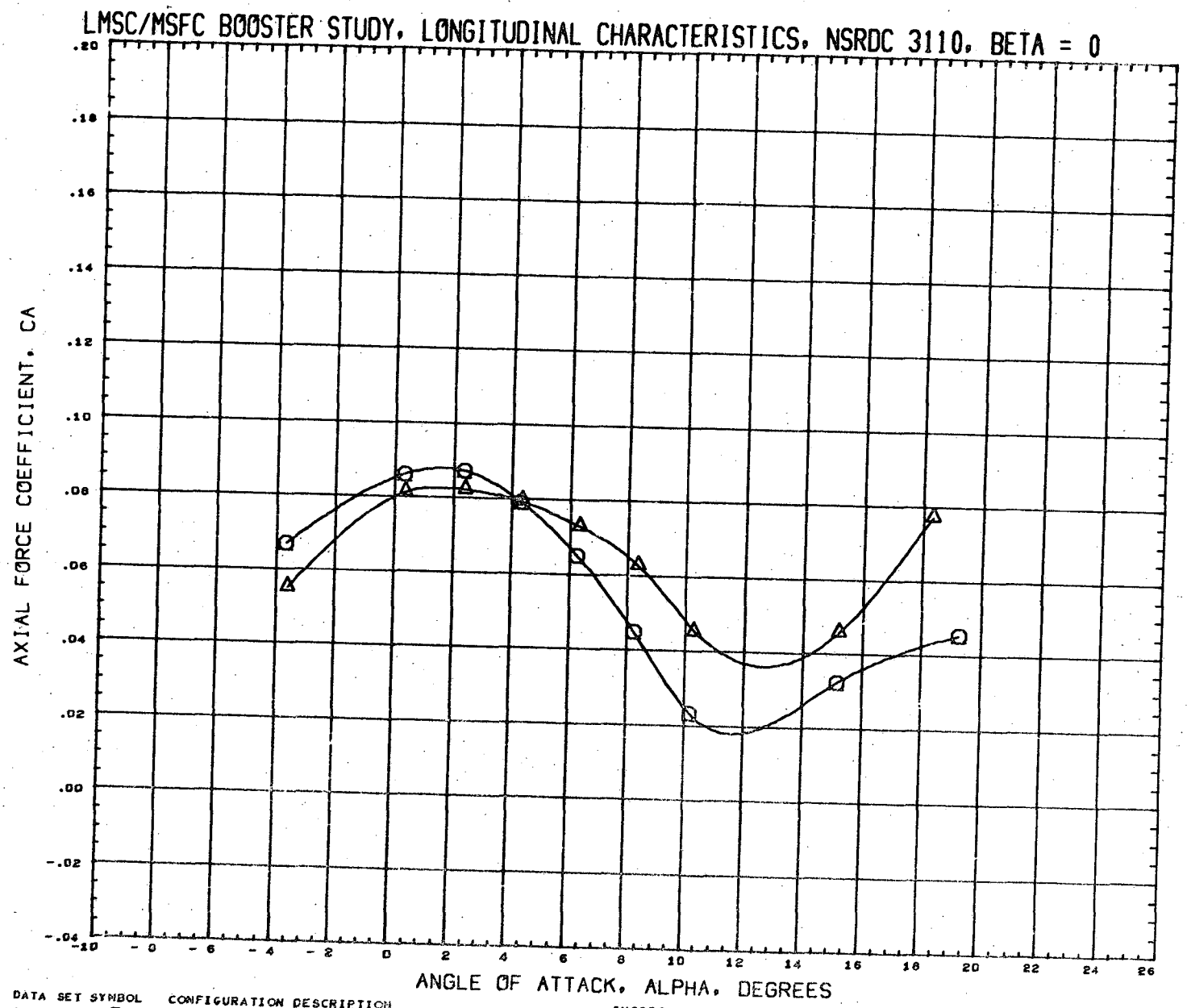


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2205)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2221)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

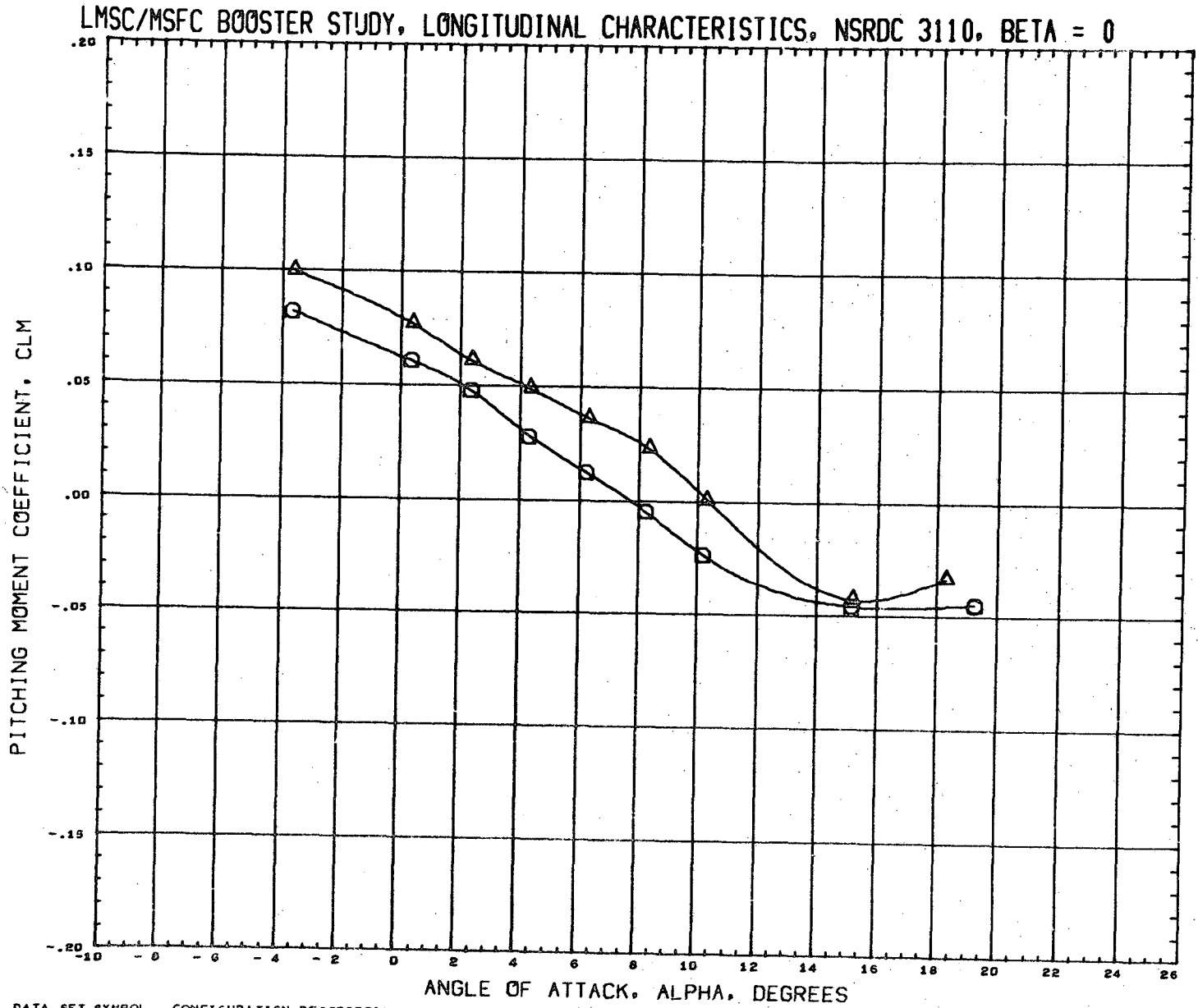
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2205) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2221) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

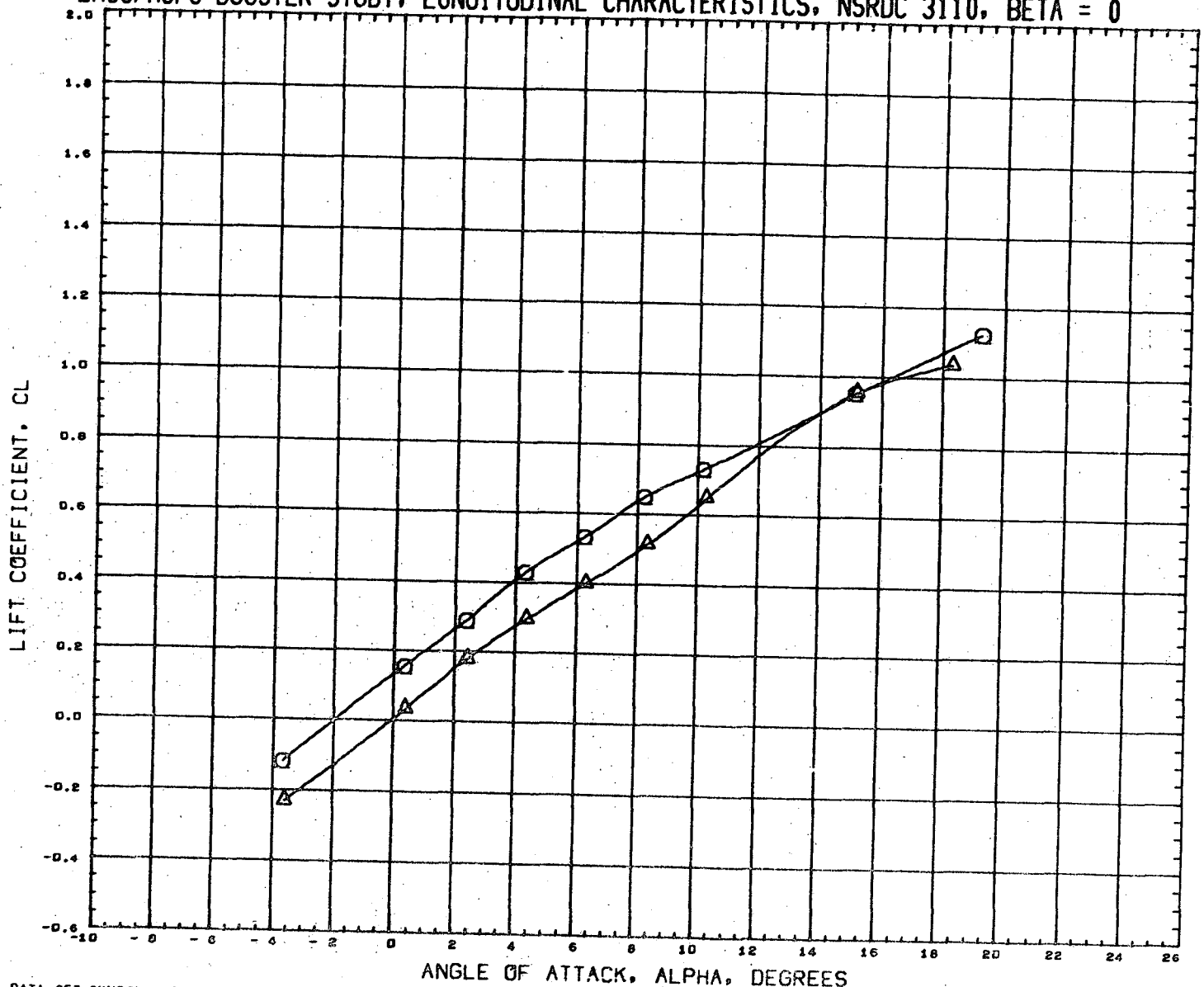


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2205)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2221)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



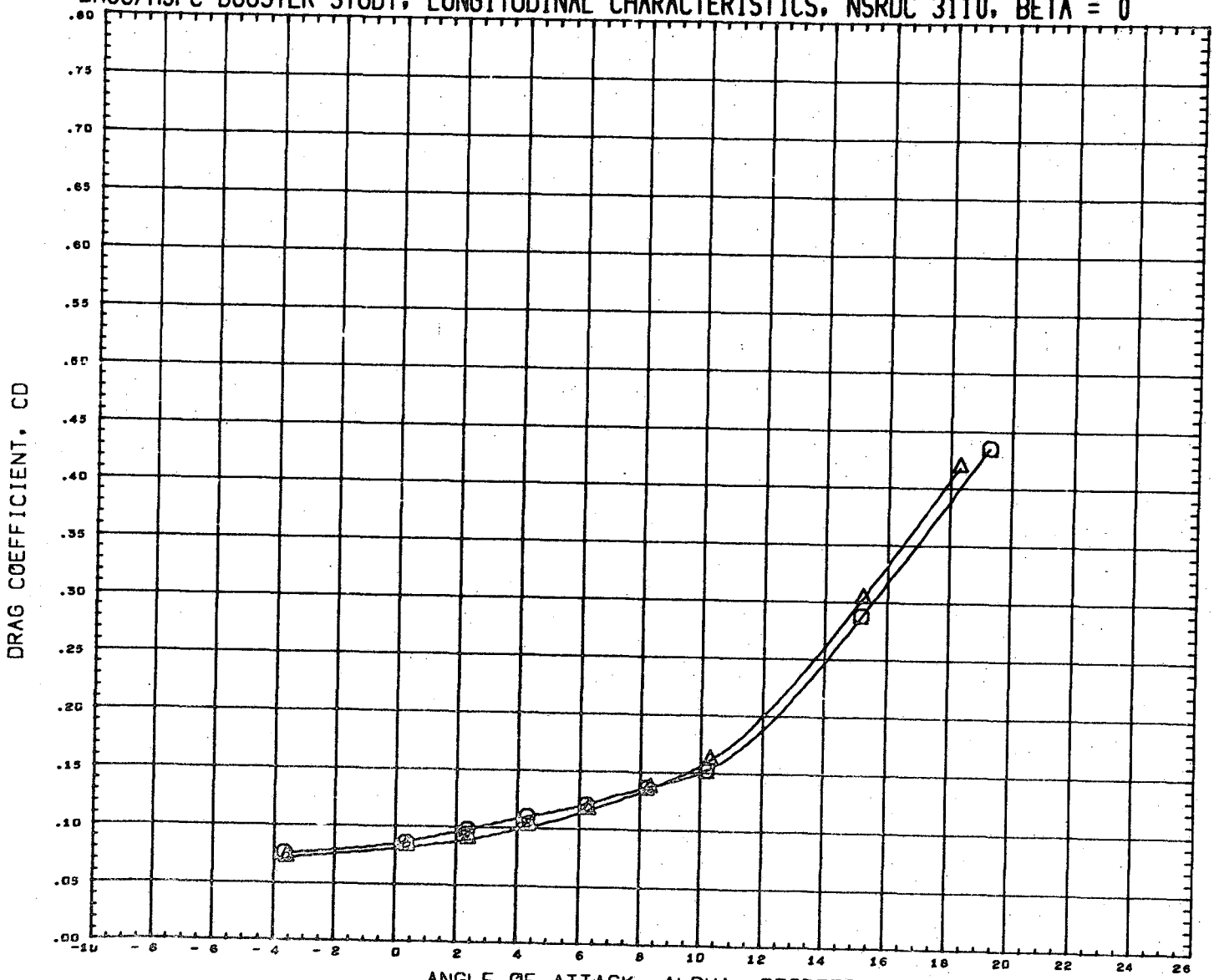
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2205)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2221)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

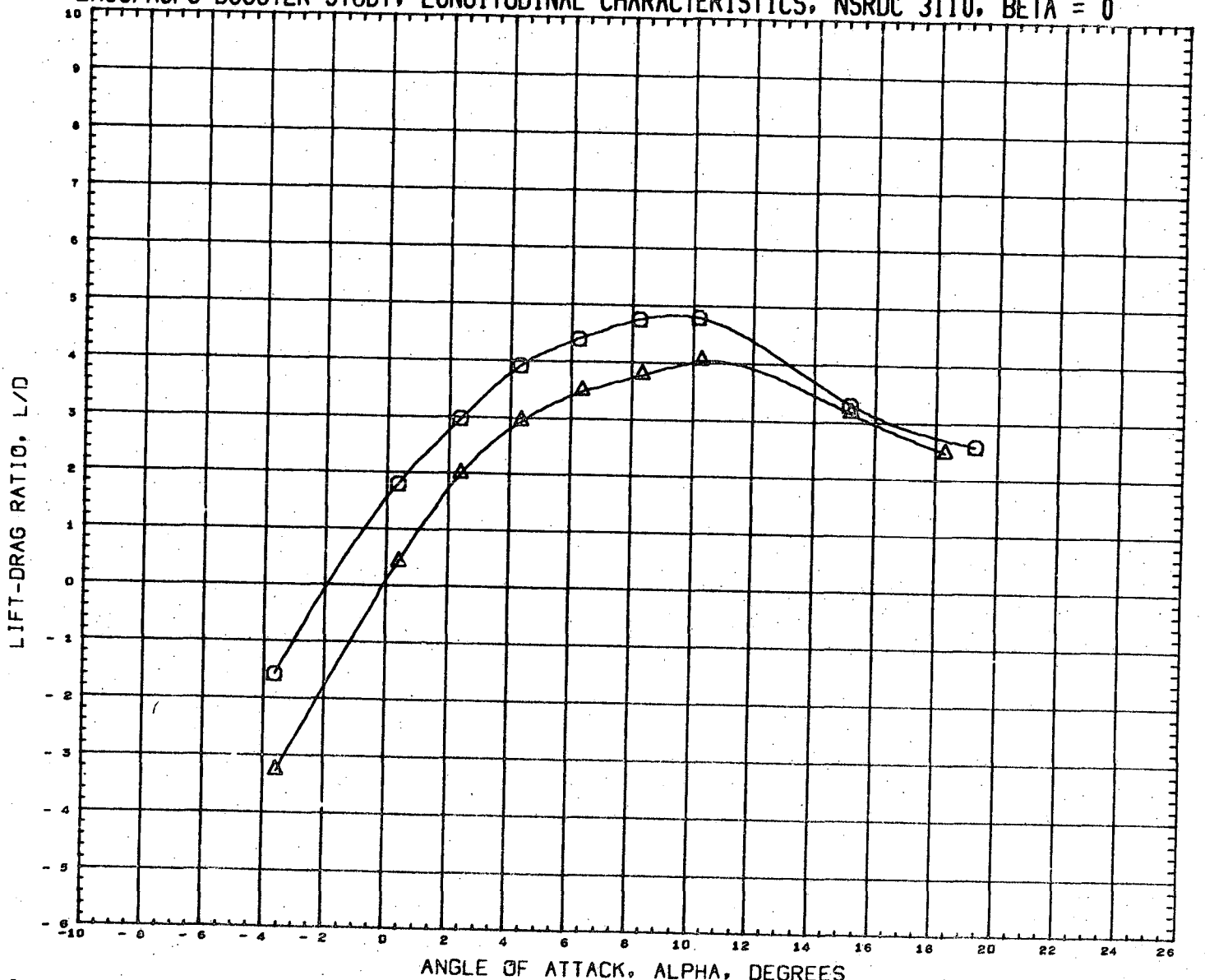


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2205)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2221)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.301

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

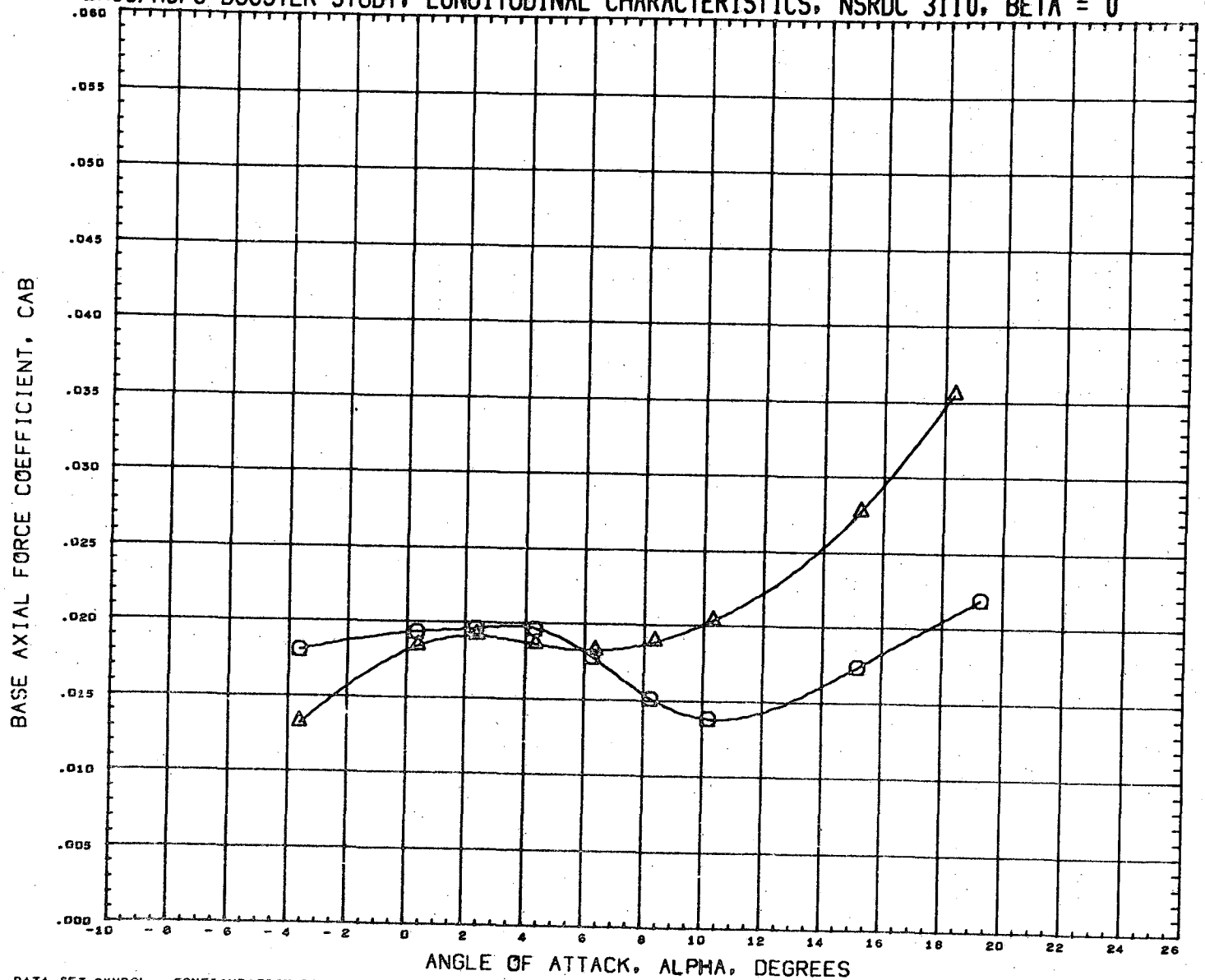


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2205)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2221)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

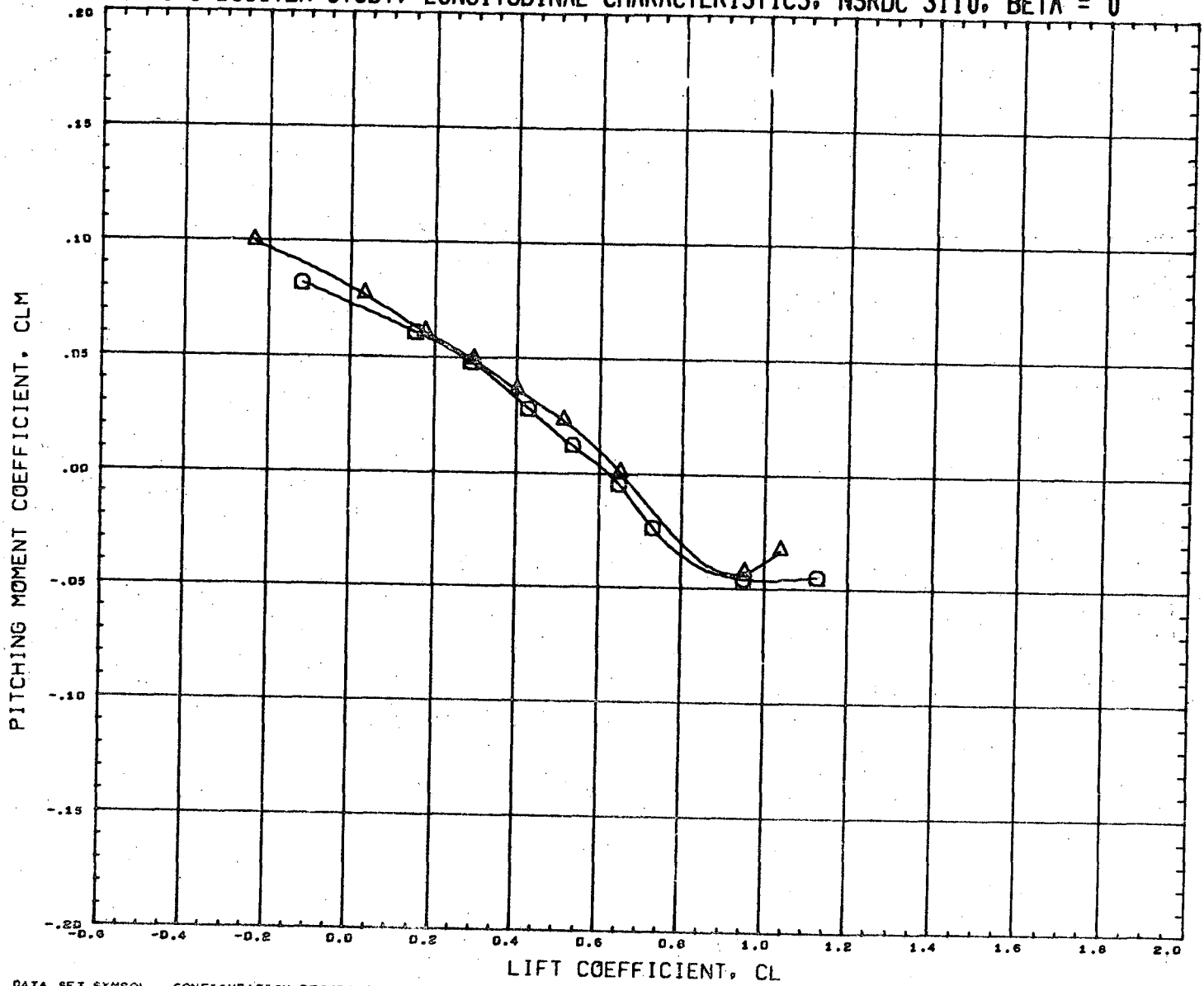


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2205)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2221)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

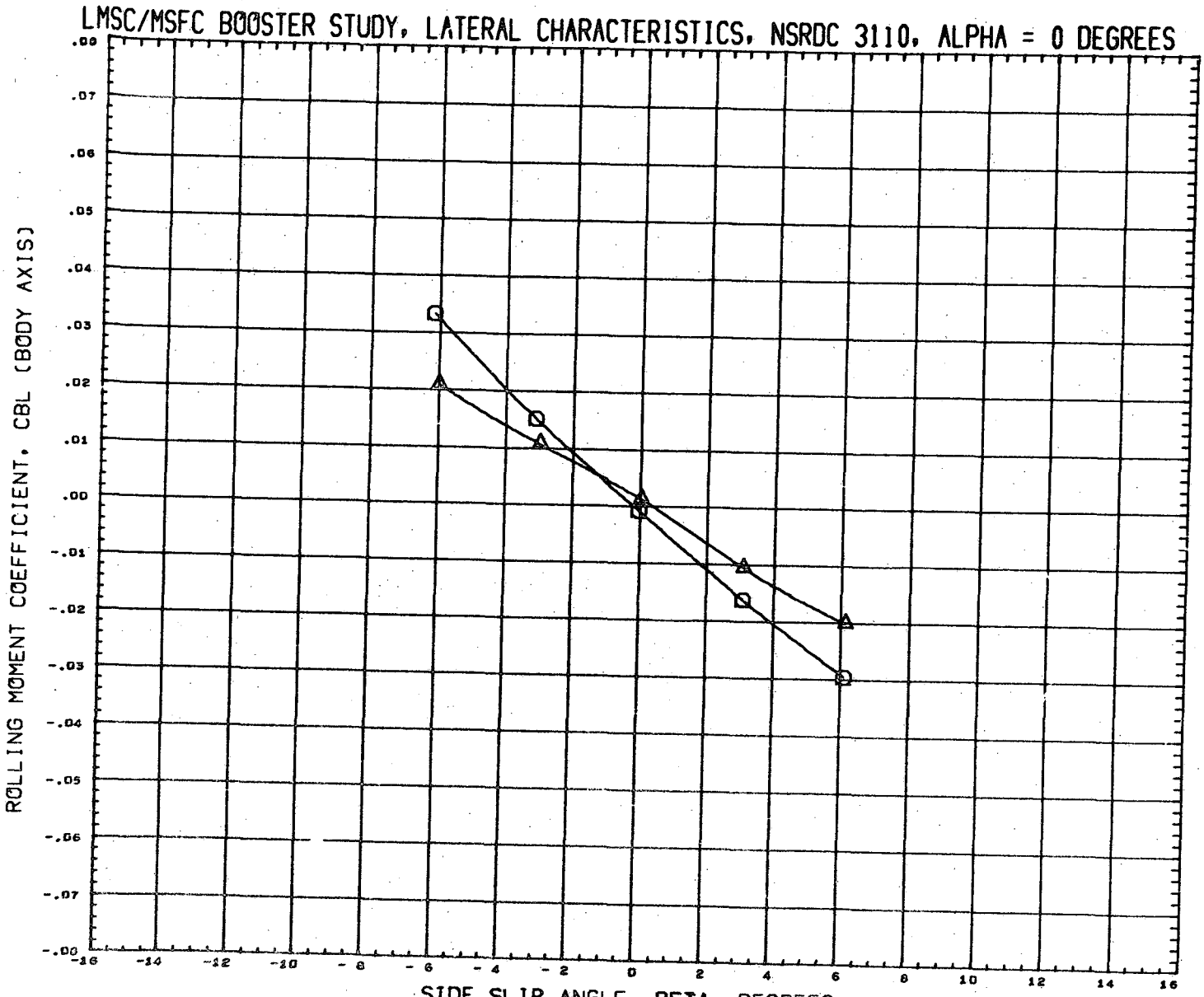
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2205)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2221)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



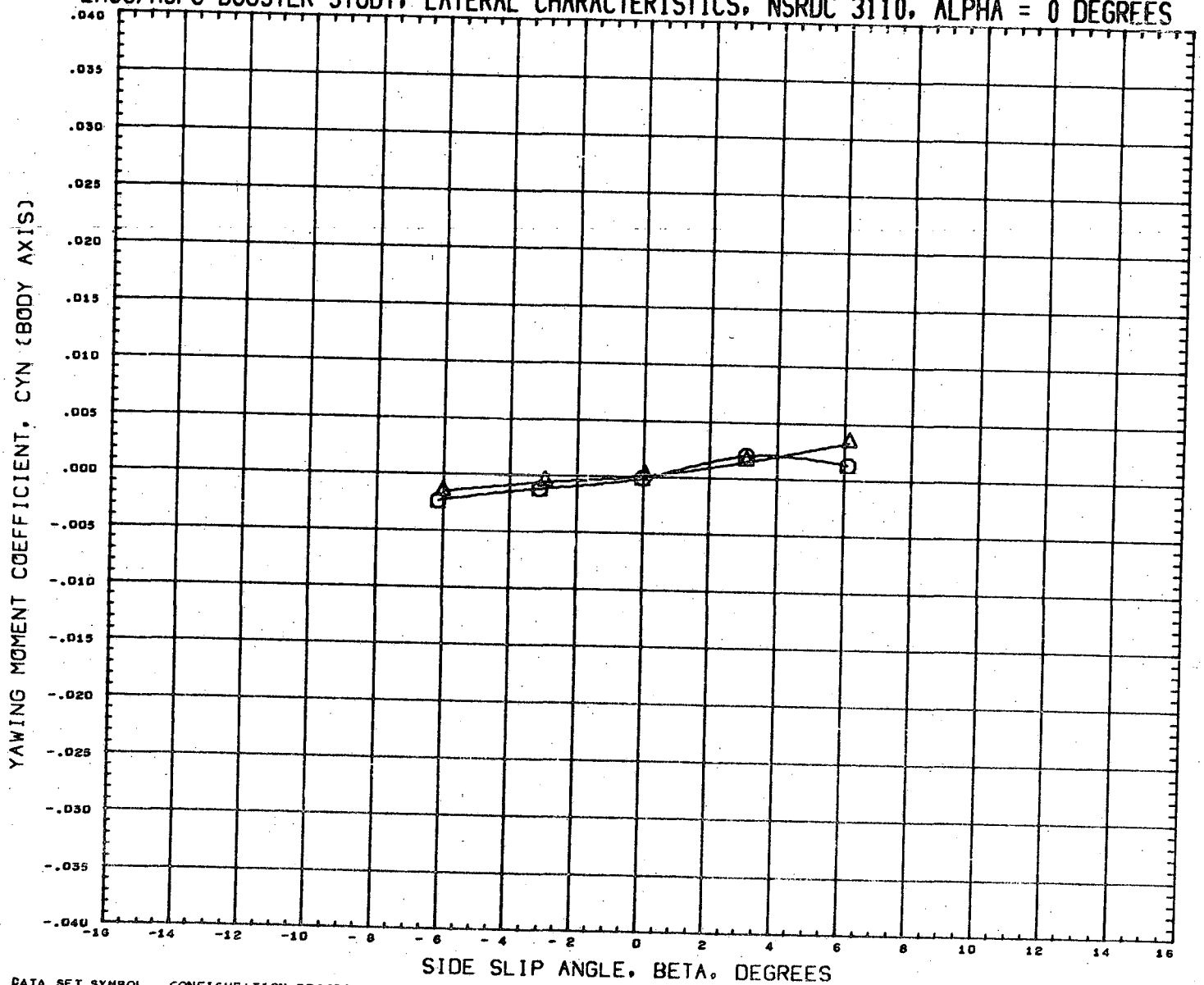
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2206)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2222)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

10 ⊕

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

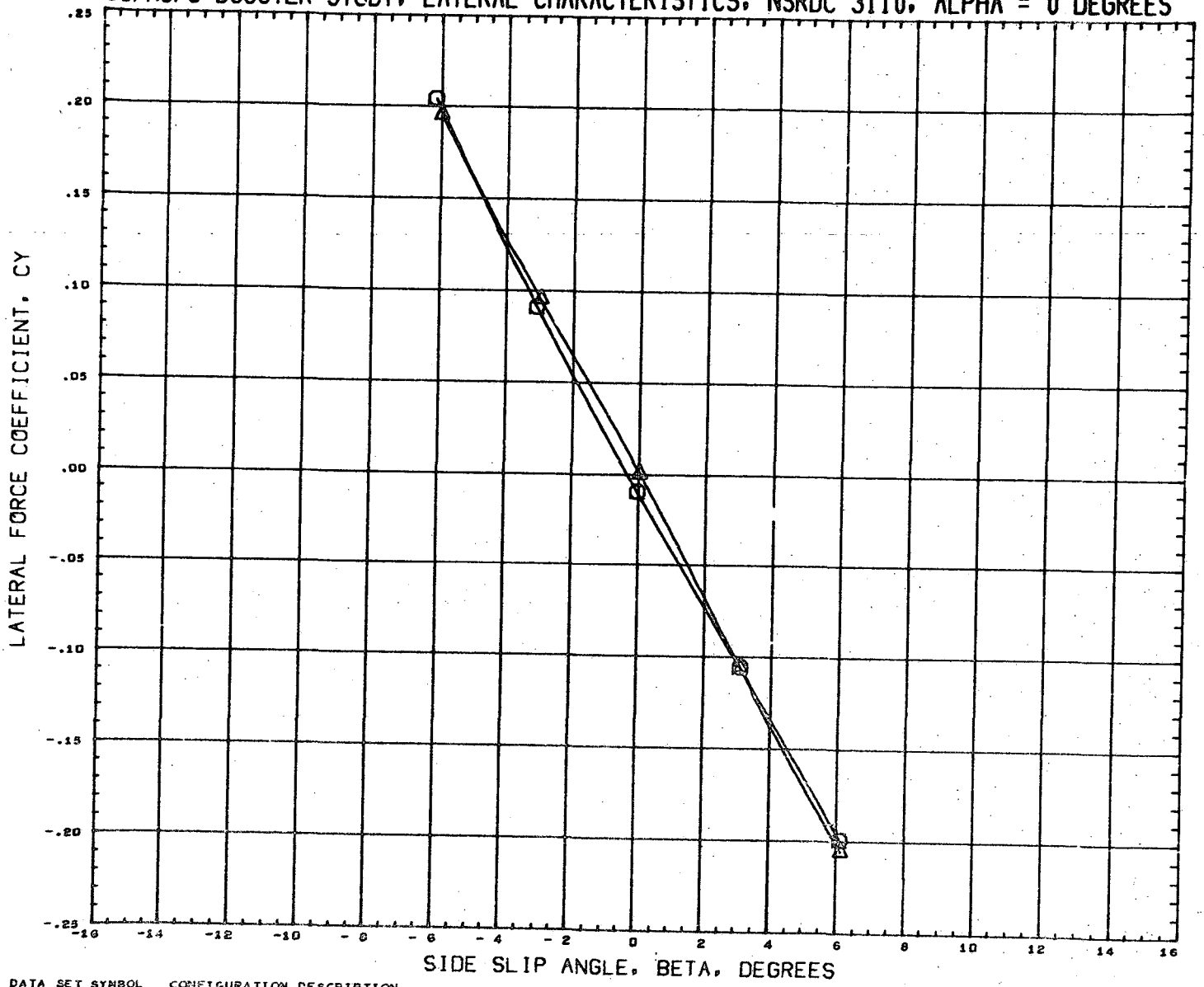


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2206)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2222)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.302

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

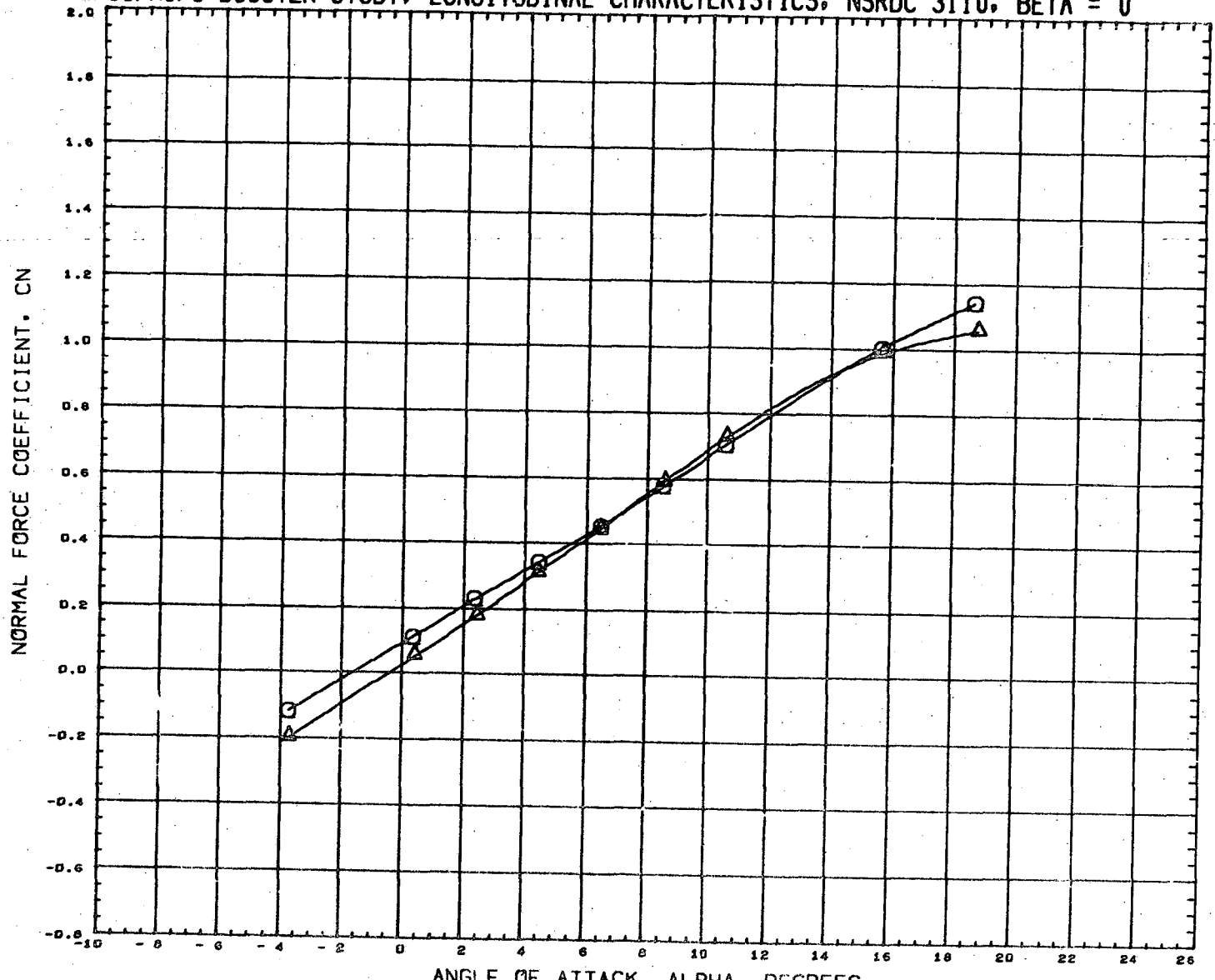


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2206)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000
(RN2222)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØØSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



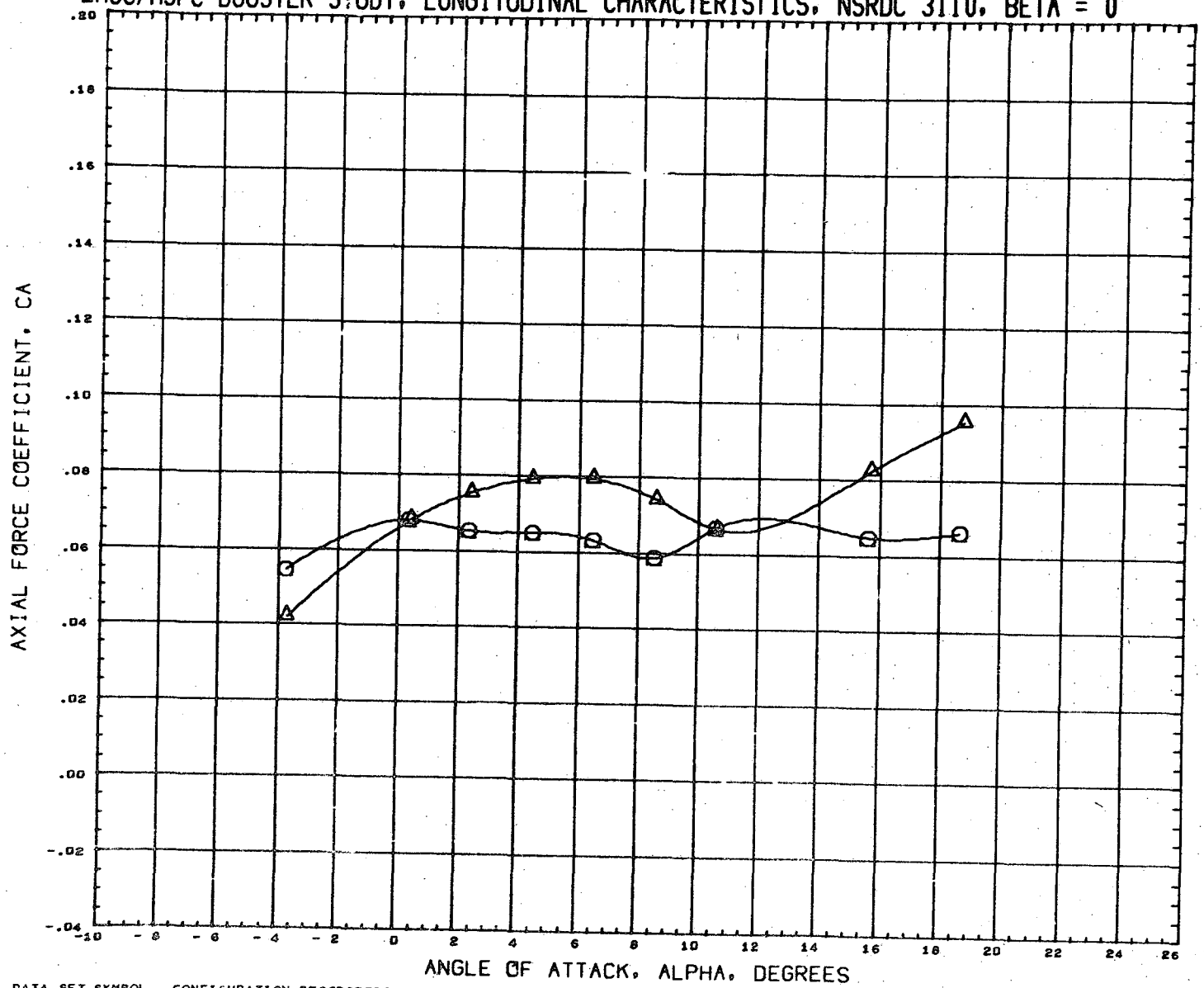
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2261)	Ø	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2273)	Δ	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



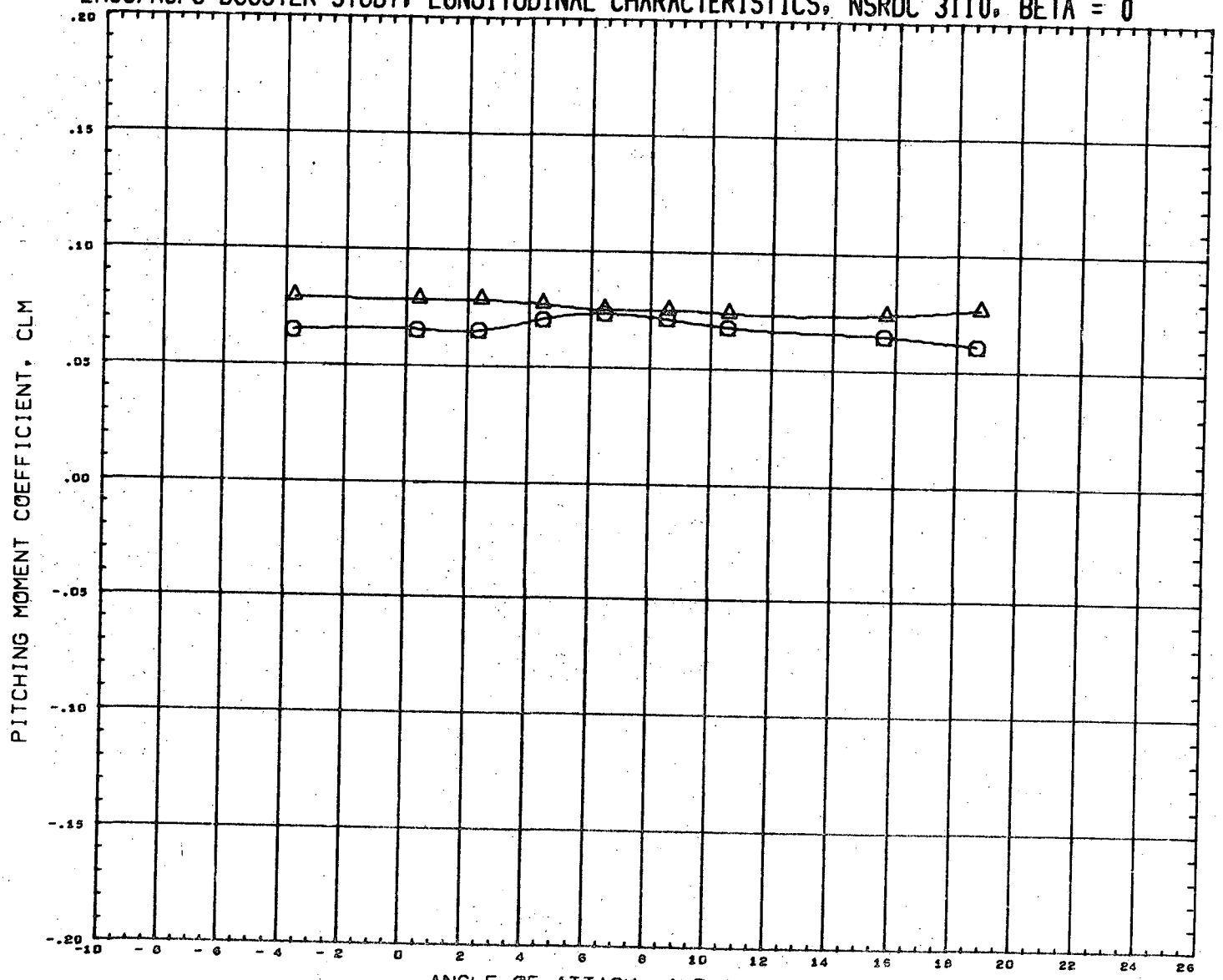
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2261)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000
(RN2273)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØOSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

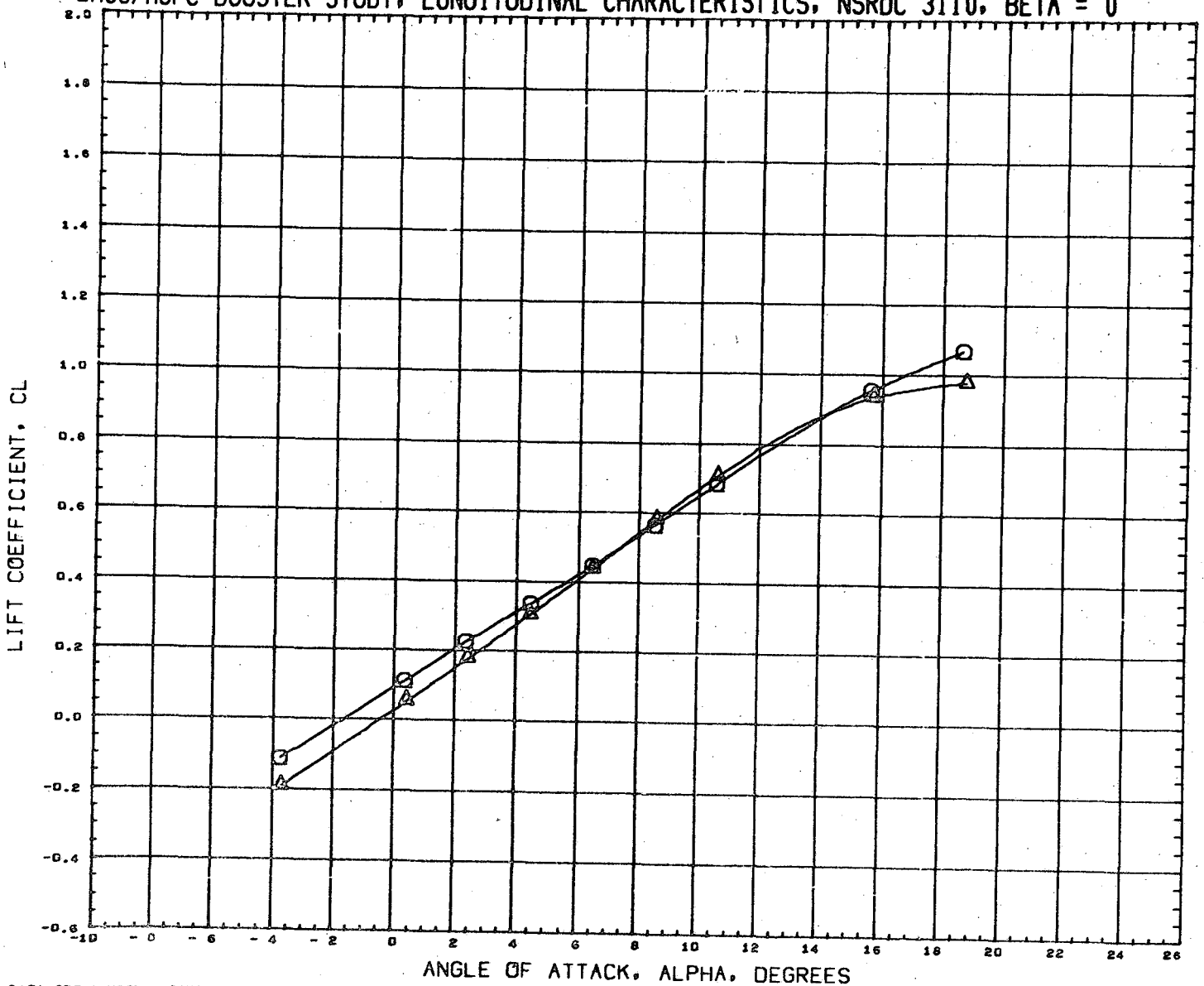


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2261)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000
(RN2273)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

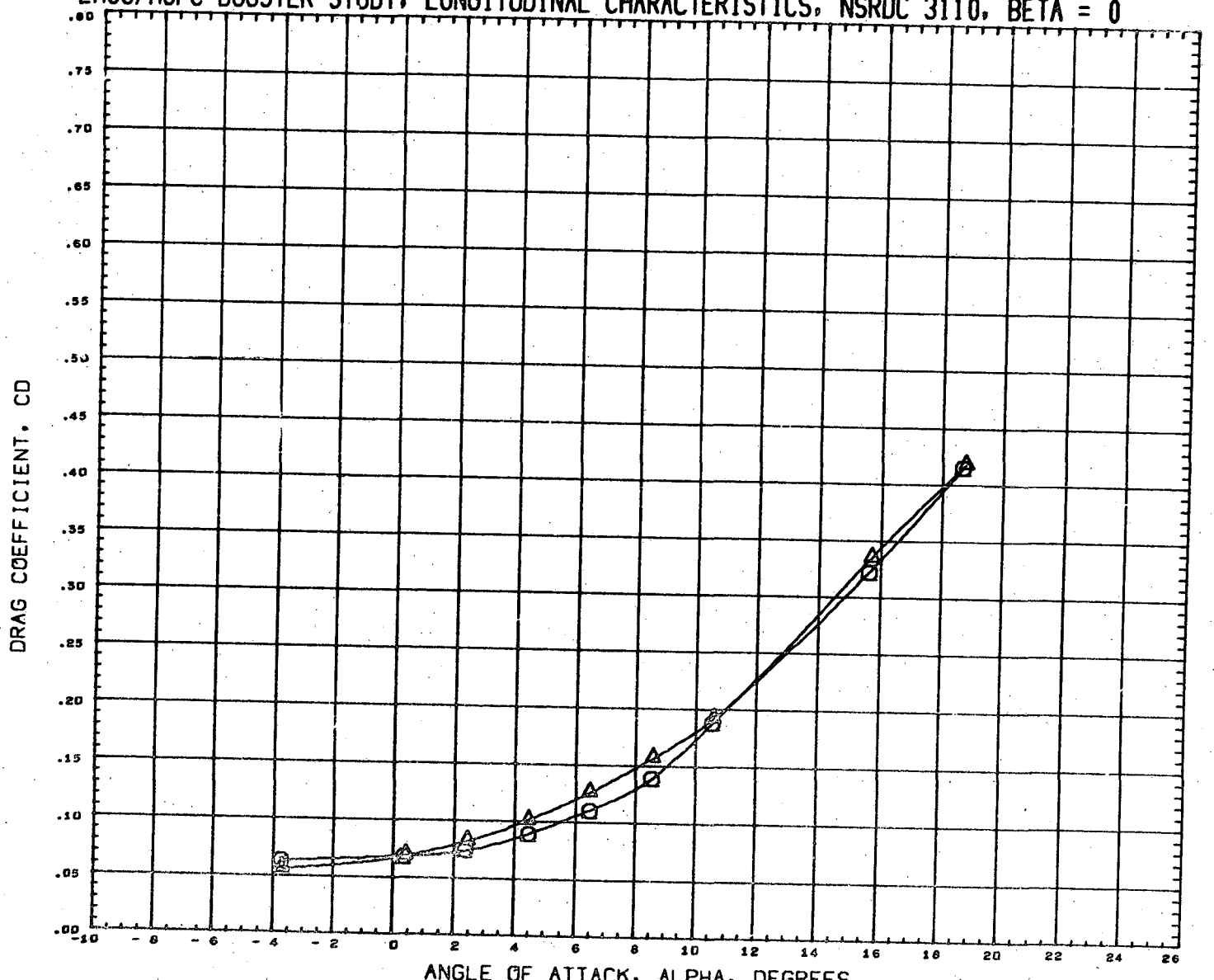


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2261)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000
(RN2273)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

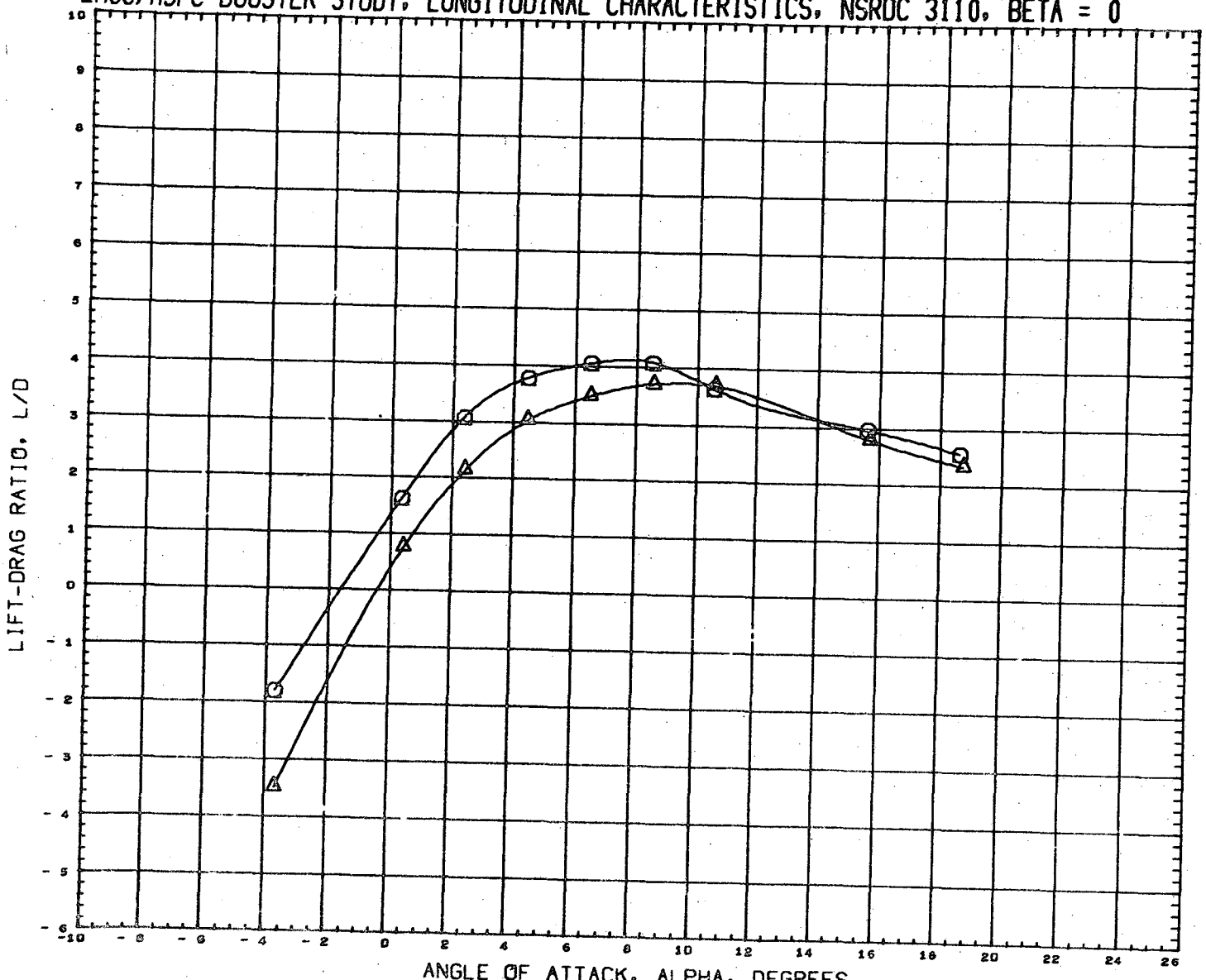


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2261)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000
(RN2273)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.581

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



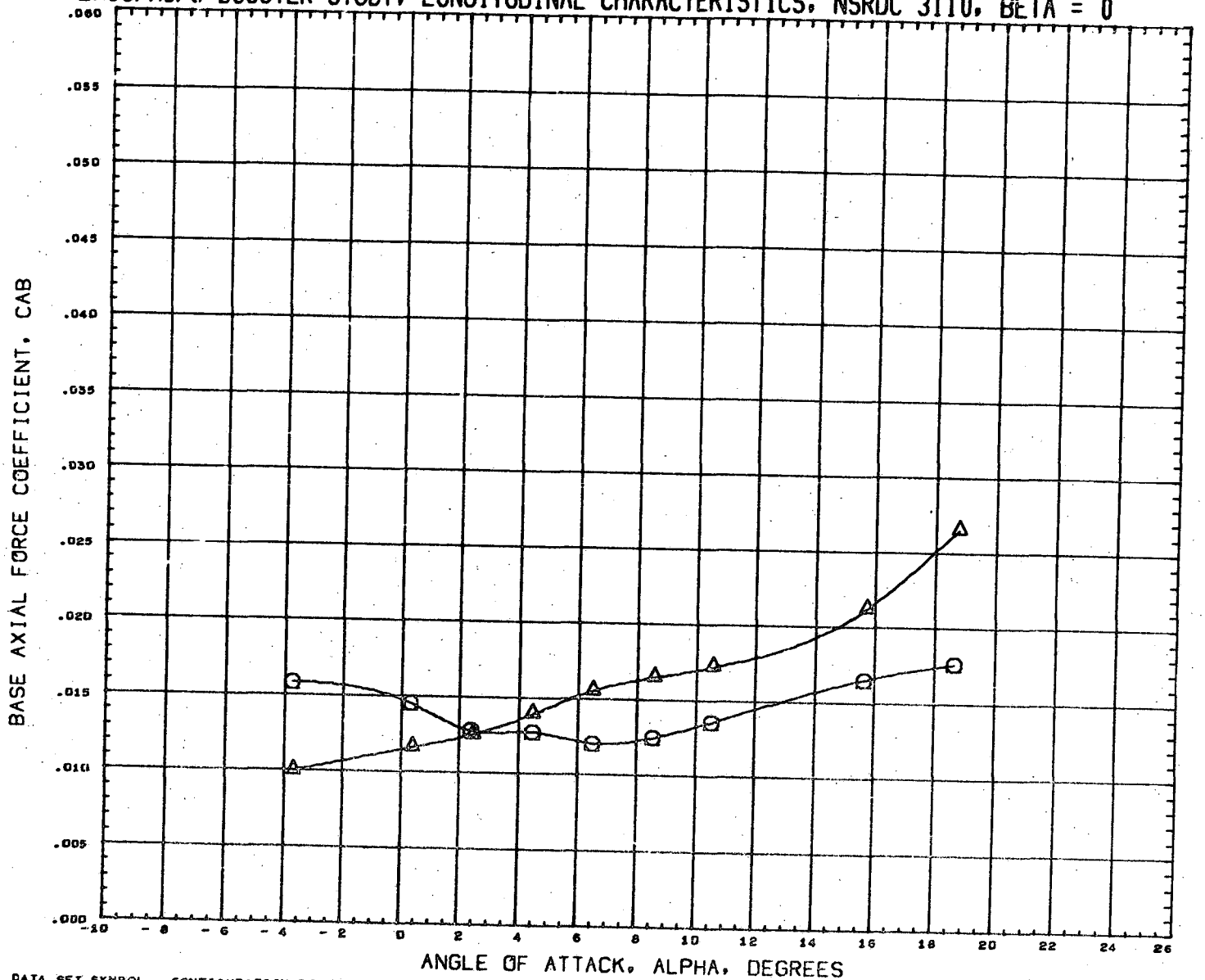
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2261)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000
(RN2273)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

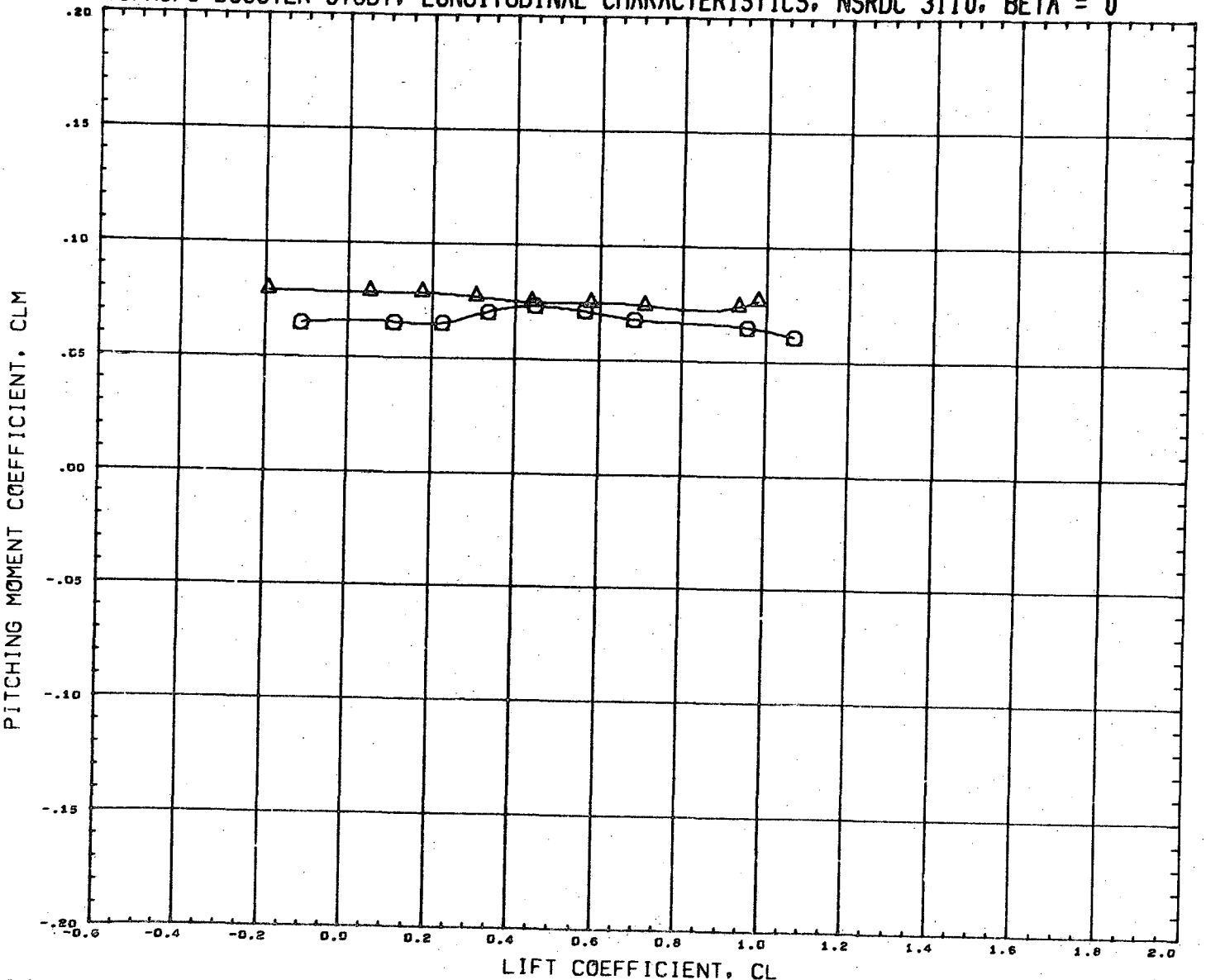


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2261)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000
(RN2273)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

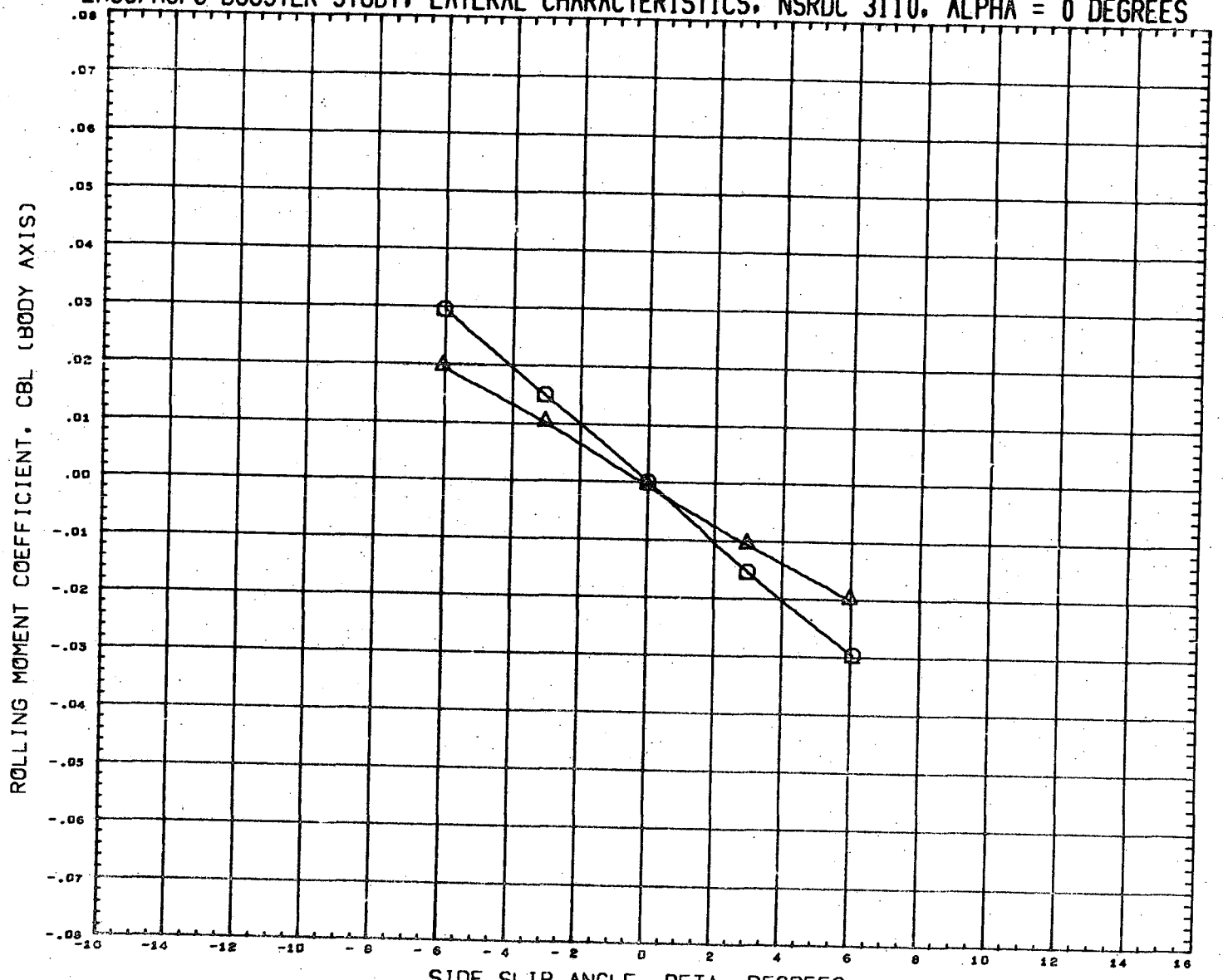


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2261)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000
(RN2273)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

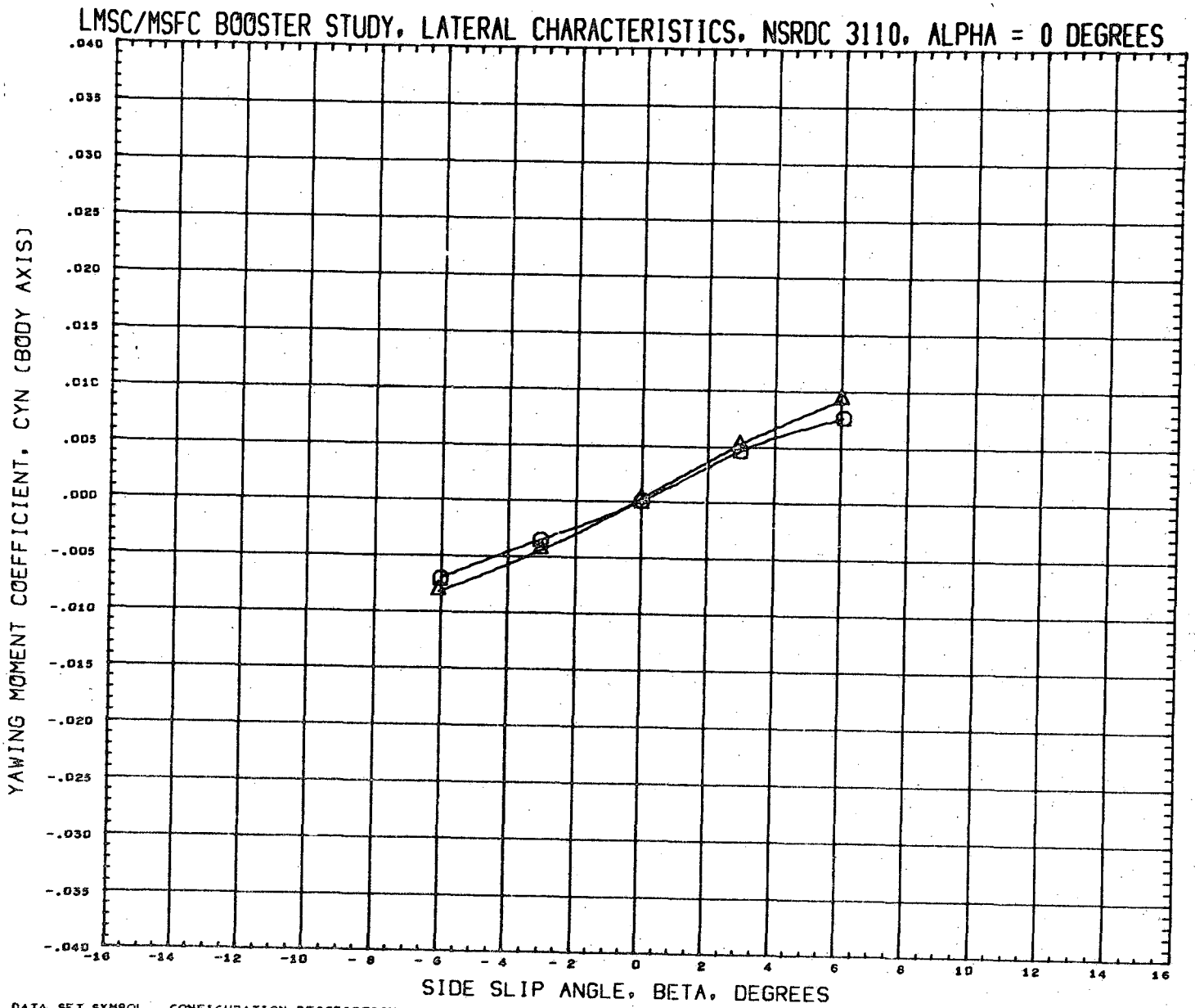
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2262) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000
(RN2274) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



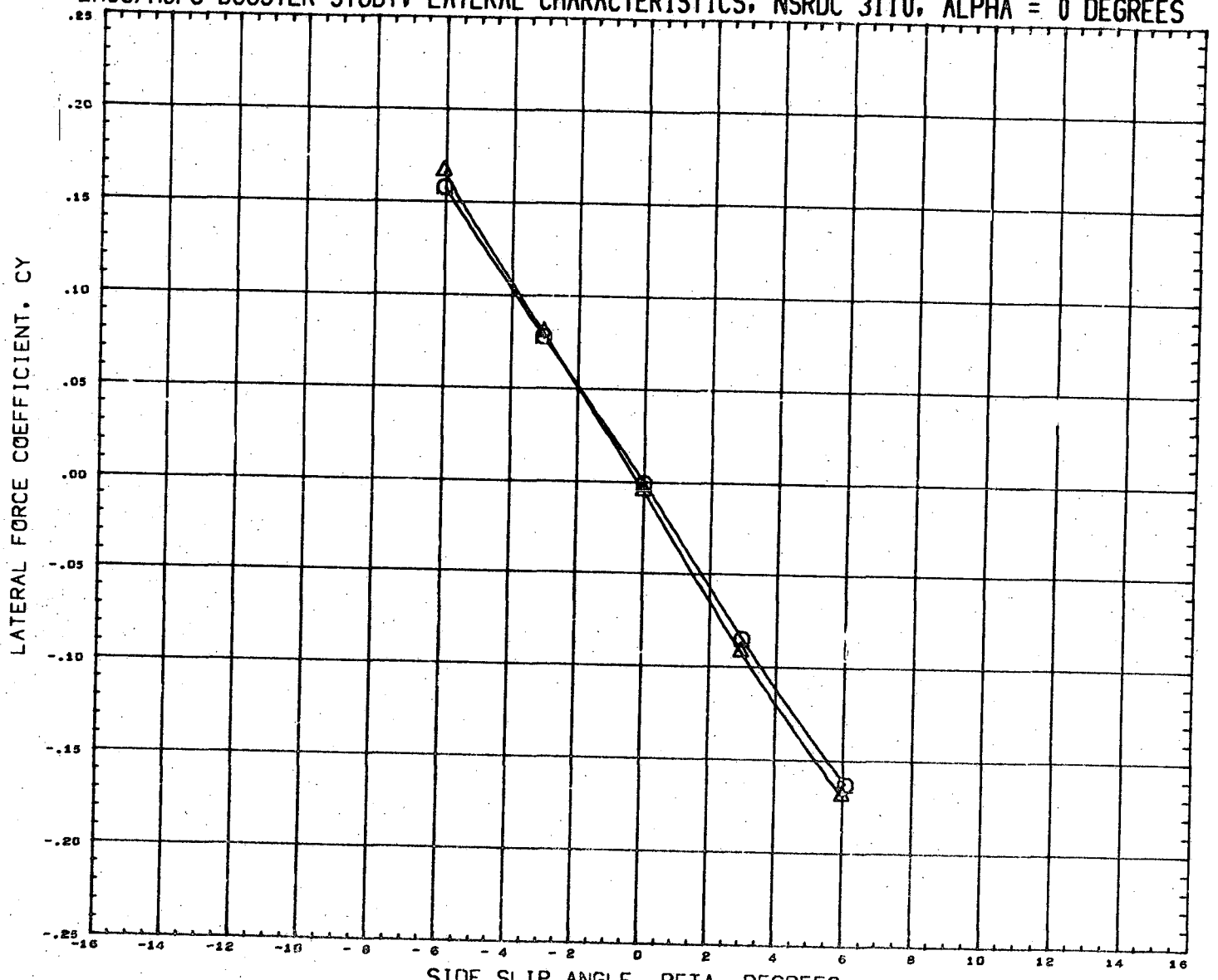
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2262)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2274)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BØOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



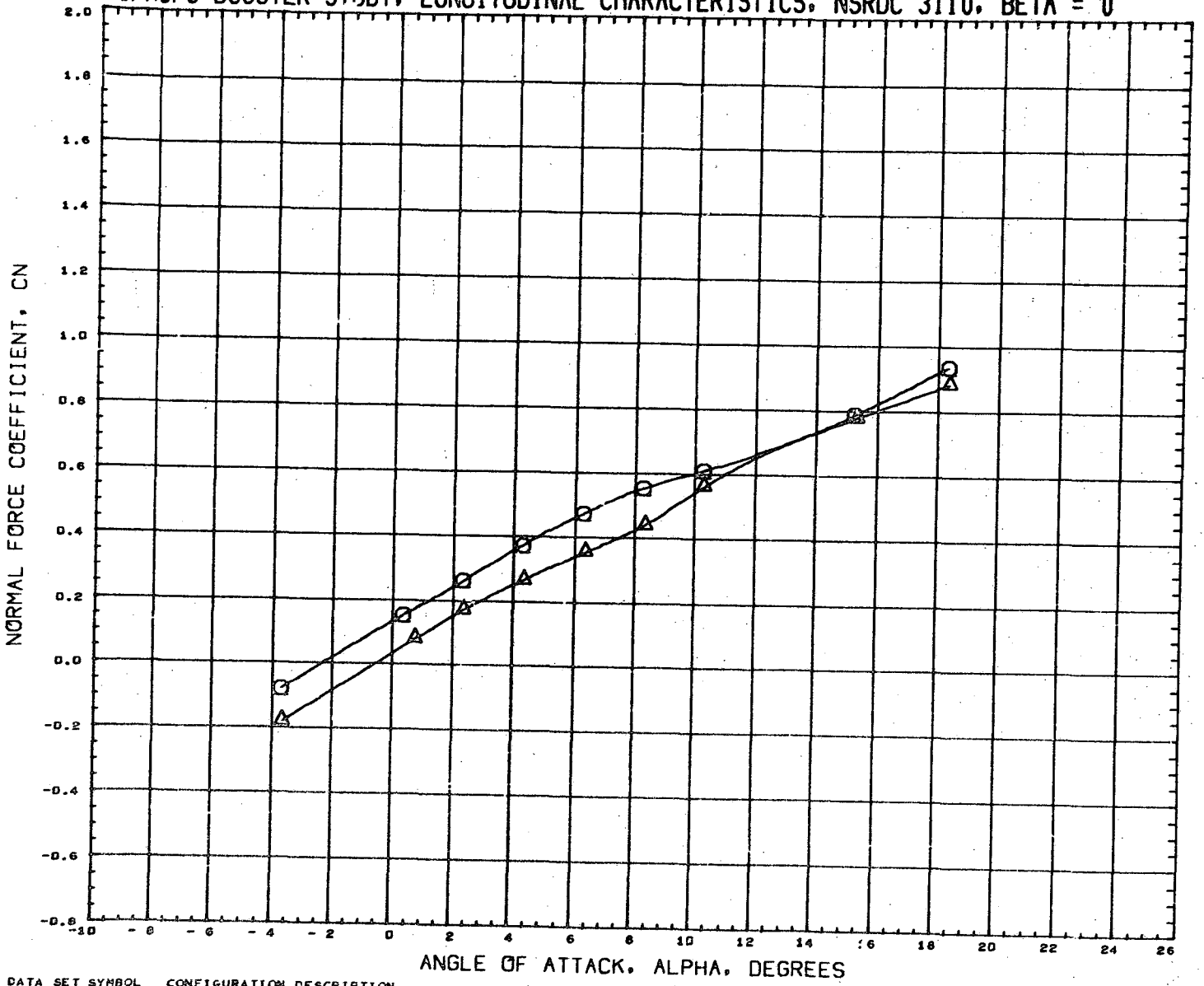
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2262)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2274)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.581

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



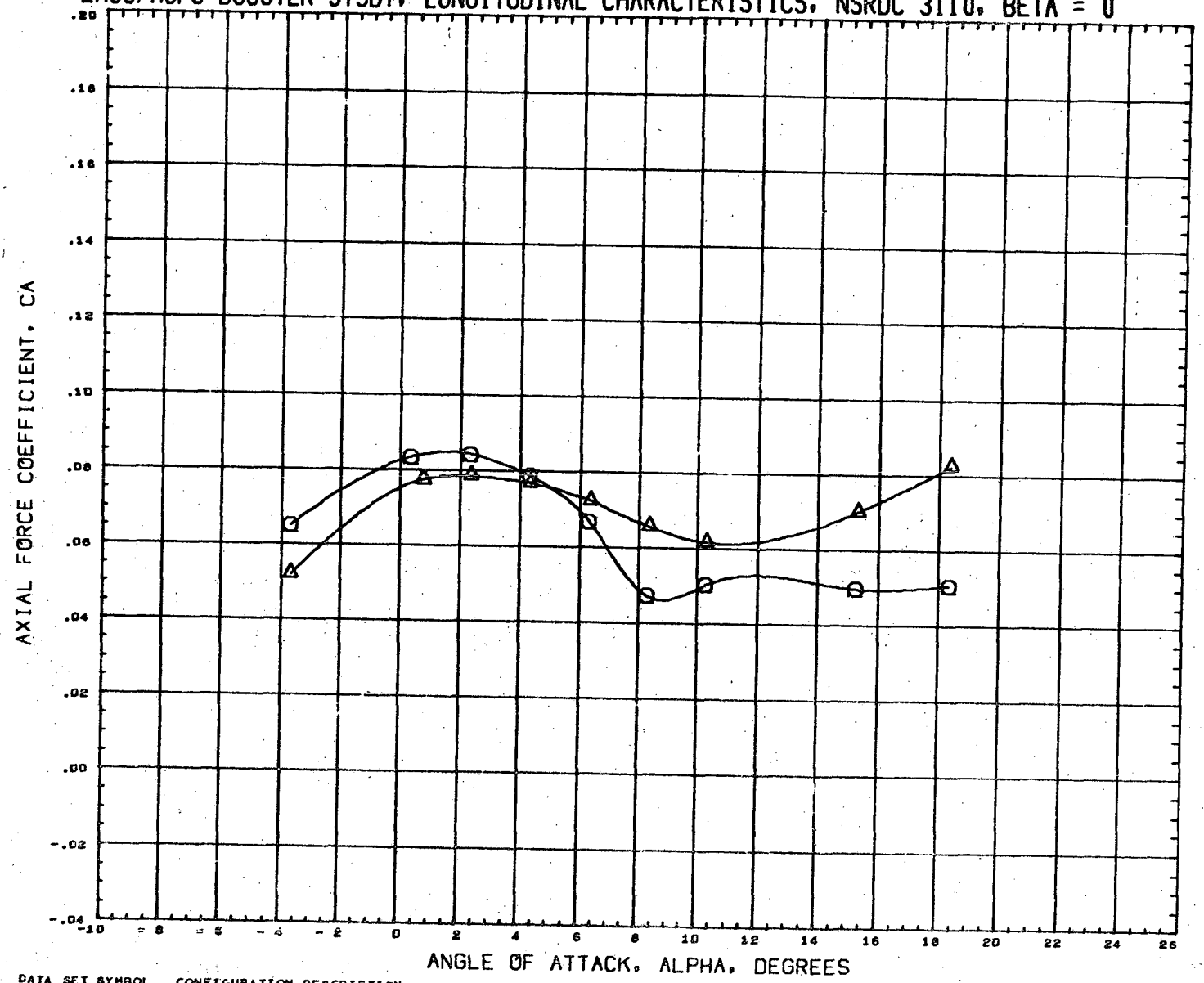
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2269)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2261)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

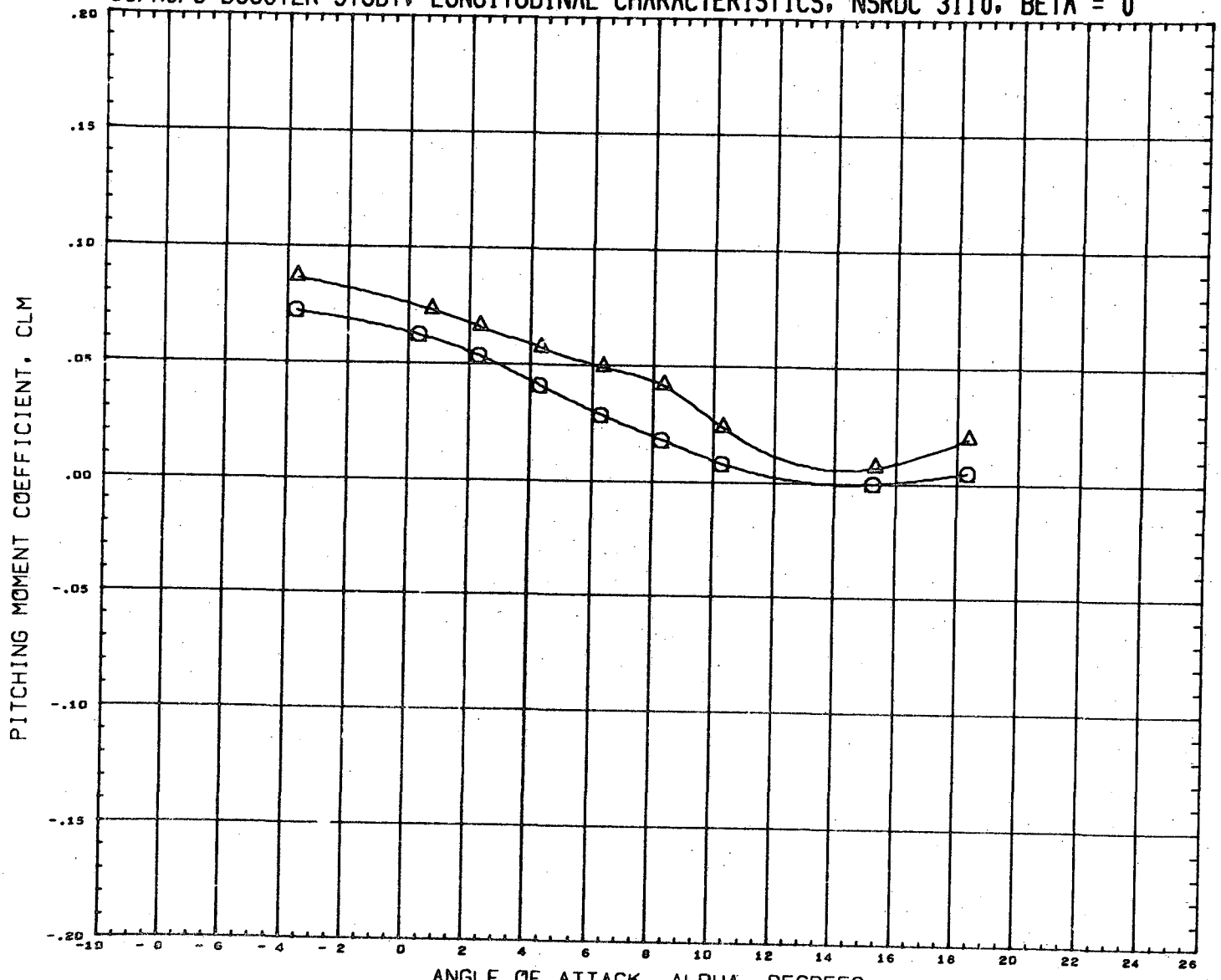


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2269)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000
(RN2281)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



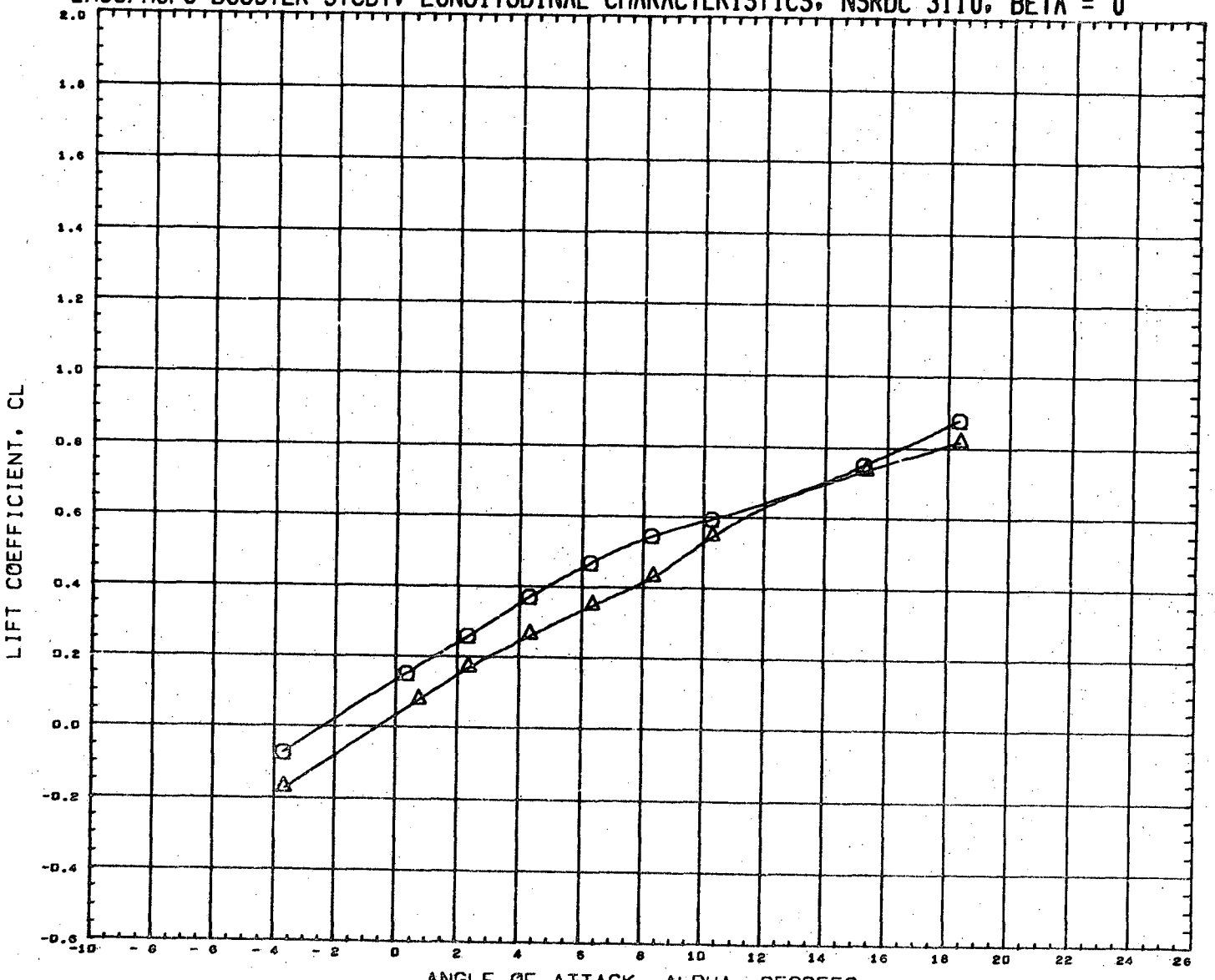
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2269)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2281)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDFOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

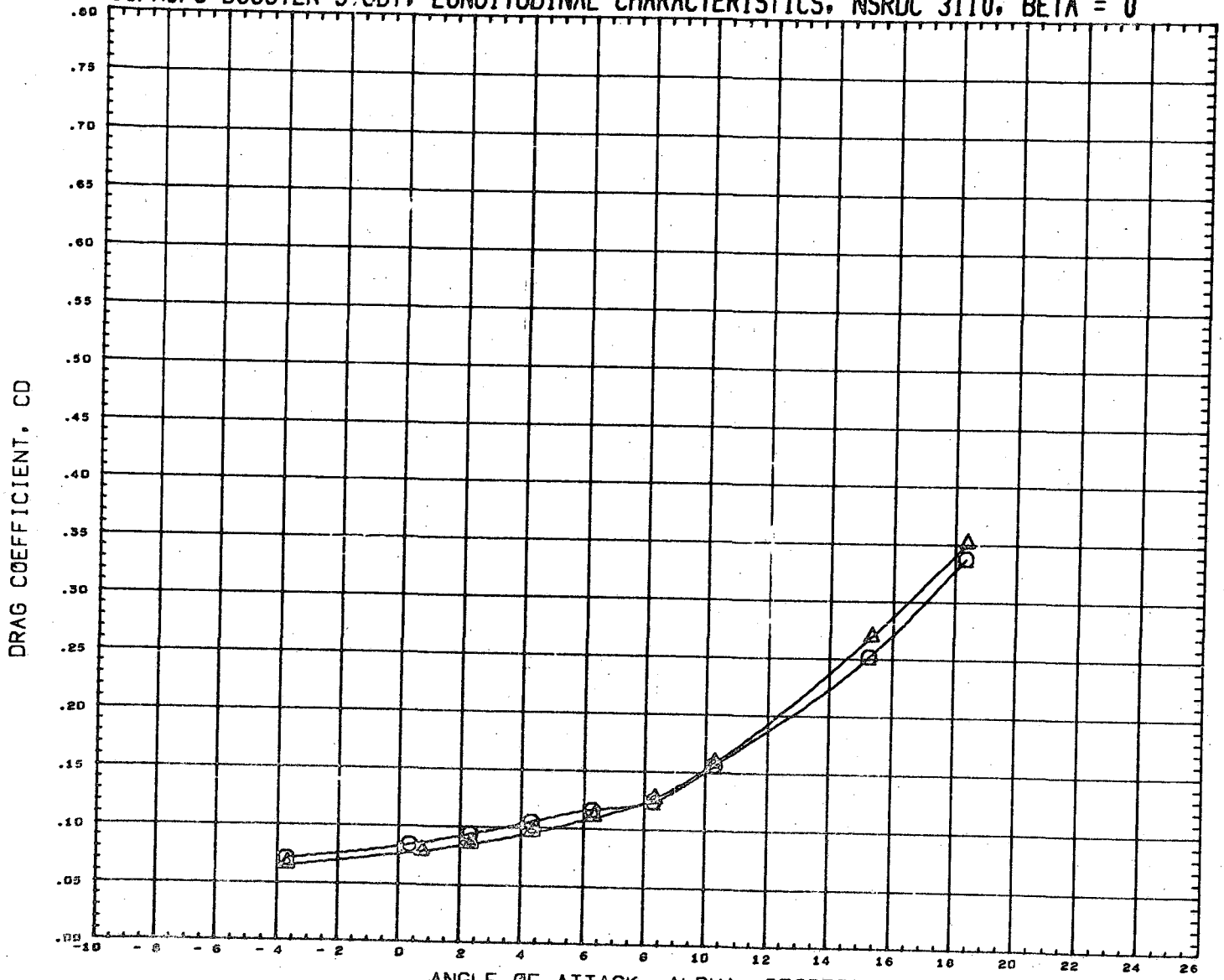


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2269)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000
(RN2281)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



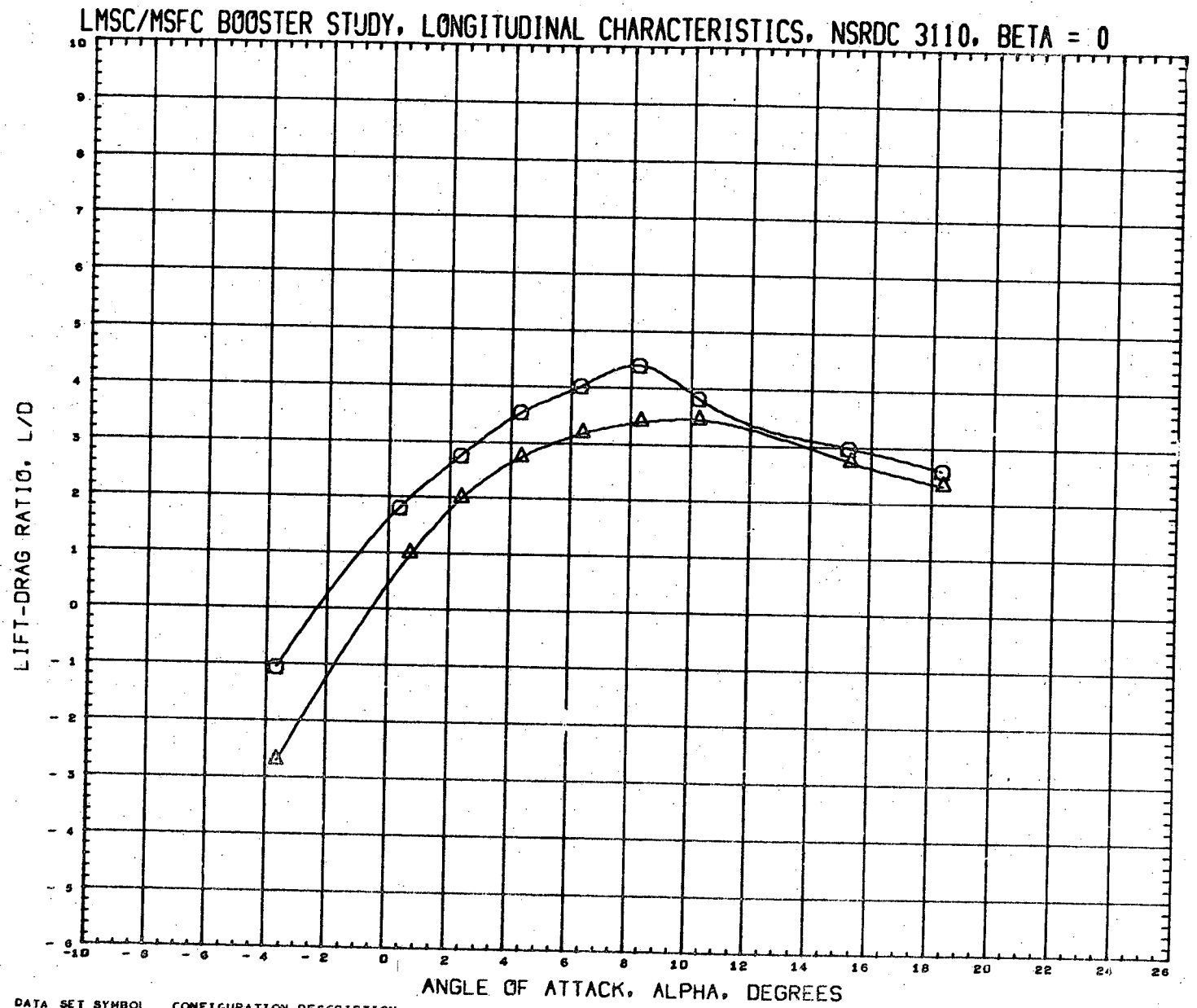
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2269)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2281)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

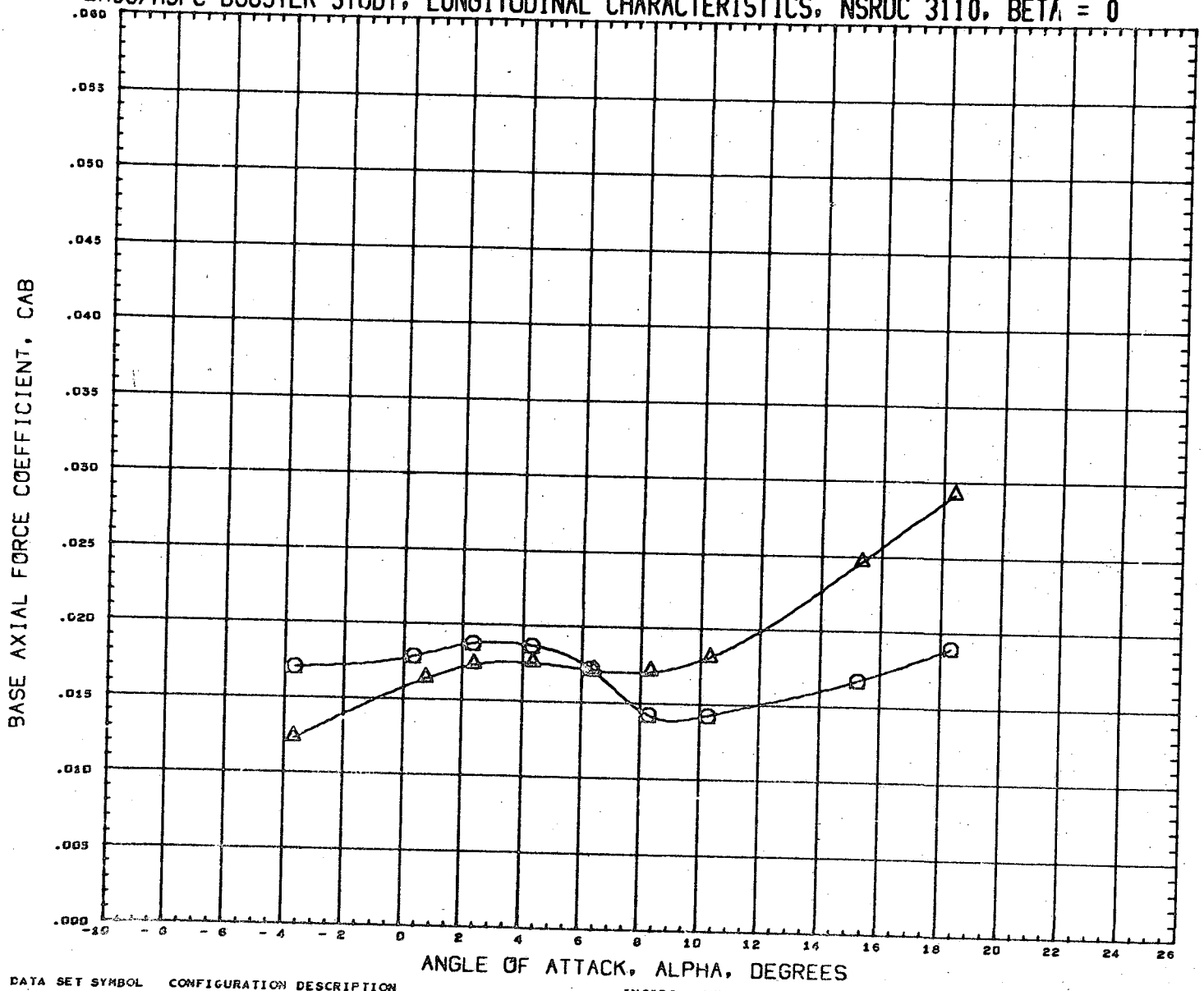


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS
(RN2269)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000
(RN2281)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



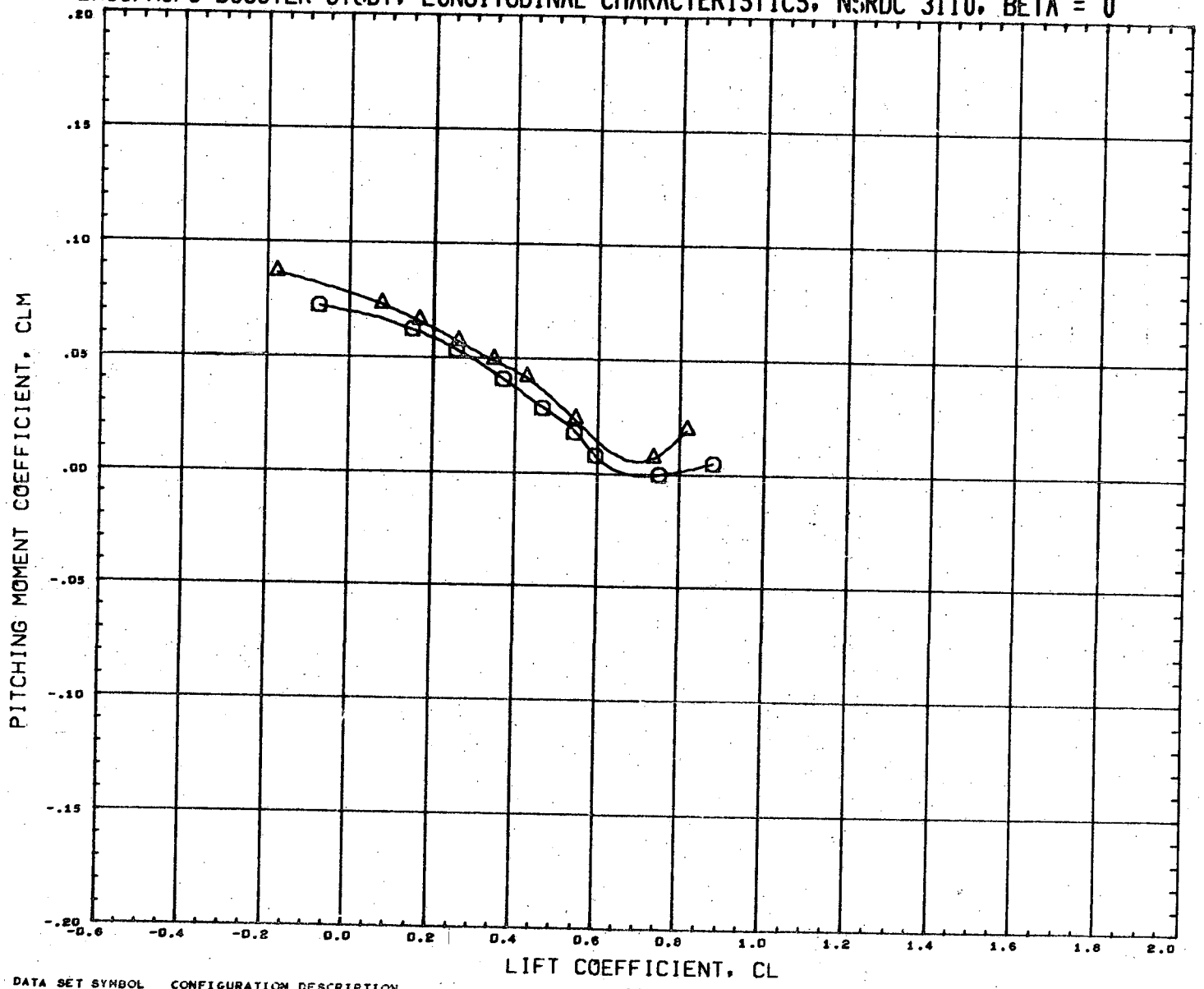
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNCPOS	INCIDW	WNGPOS
(RN2269)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000
(RN2281)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

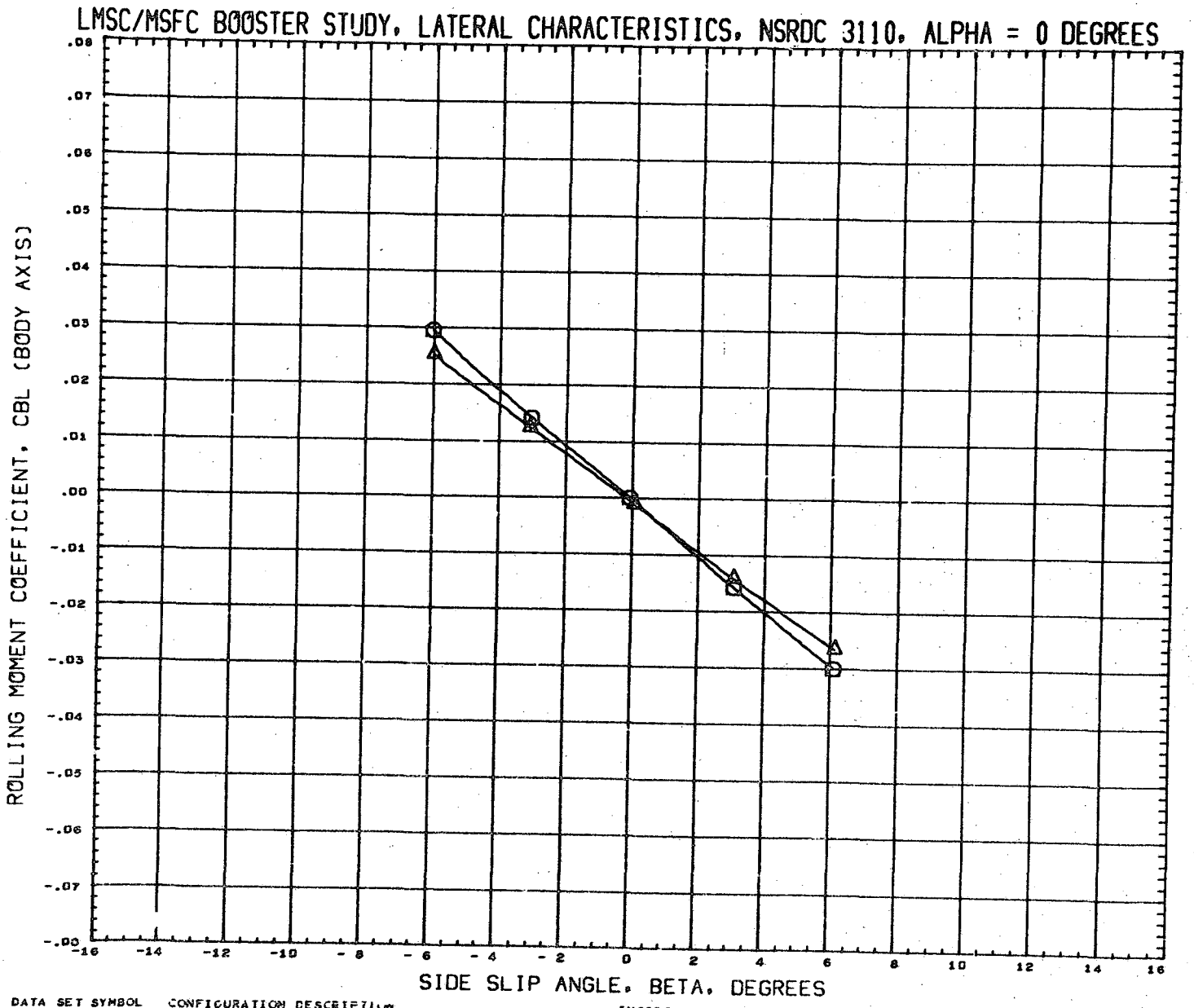


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2269)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2281)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

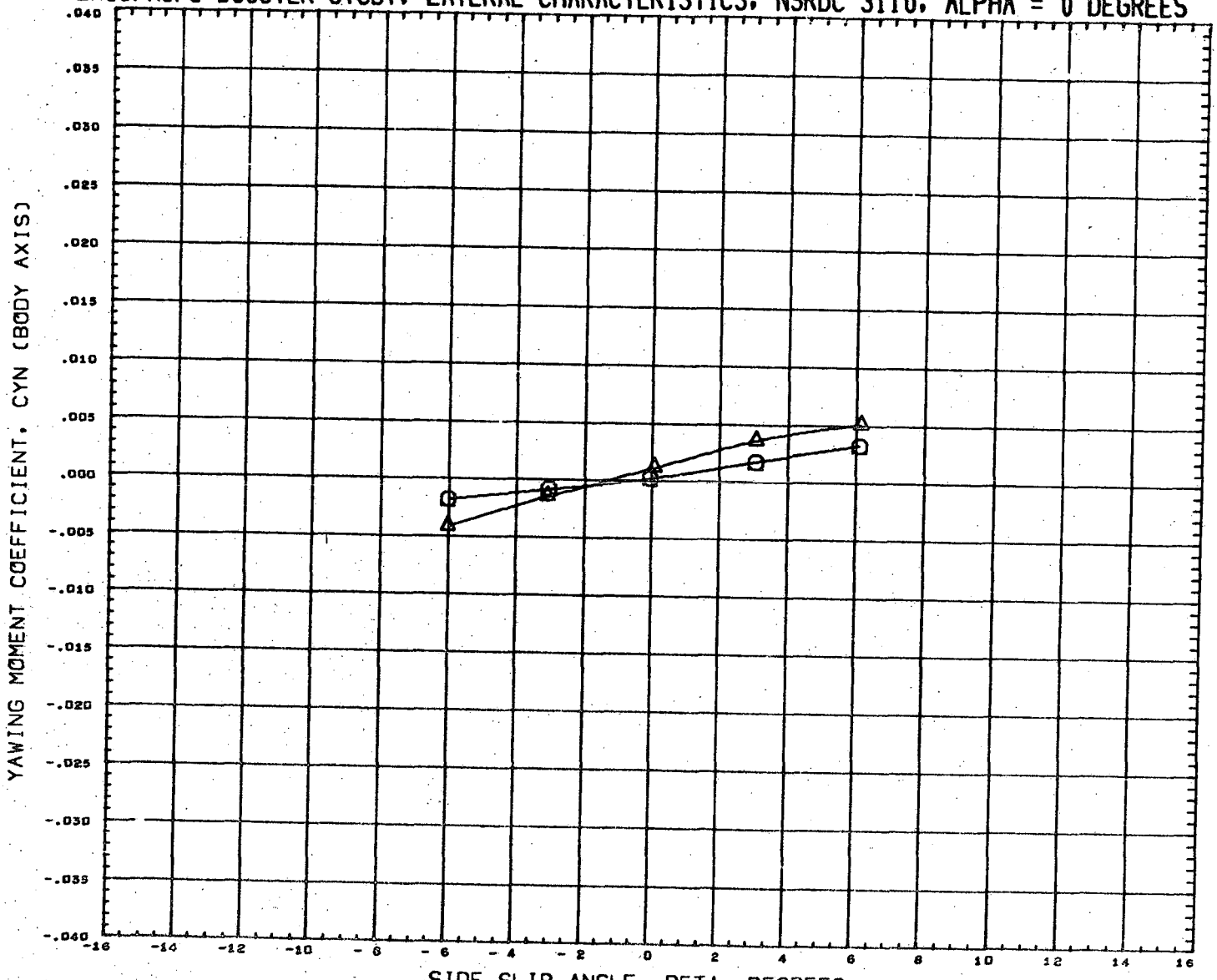


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2270)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000
(RN2282)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

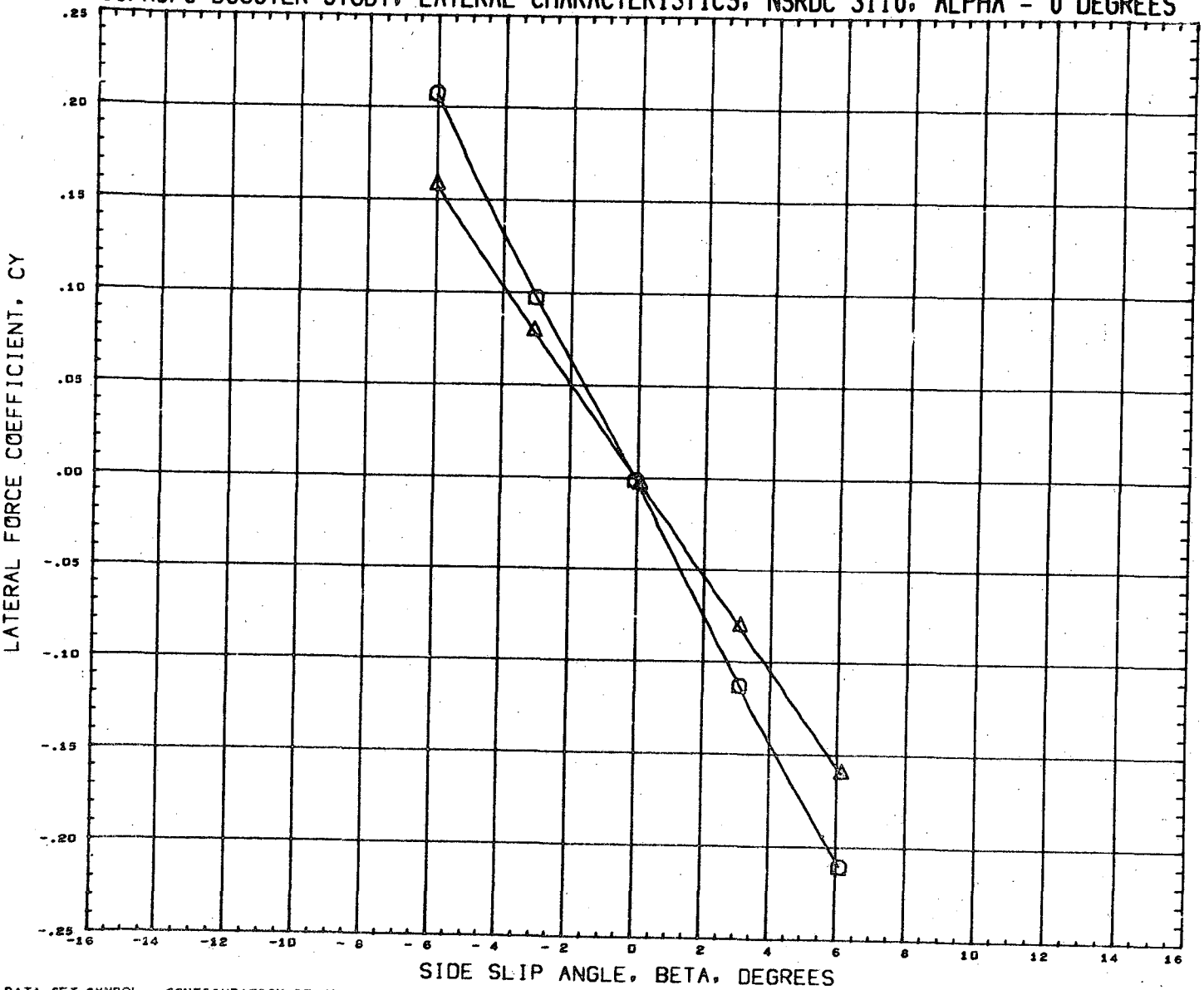


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2270) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000
(RN2282) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



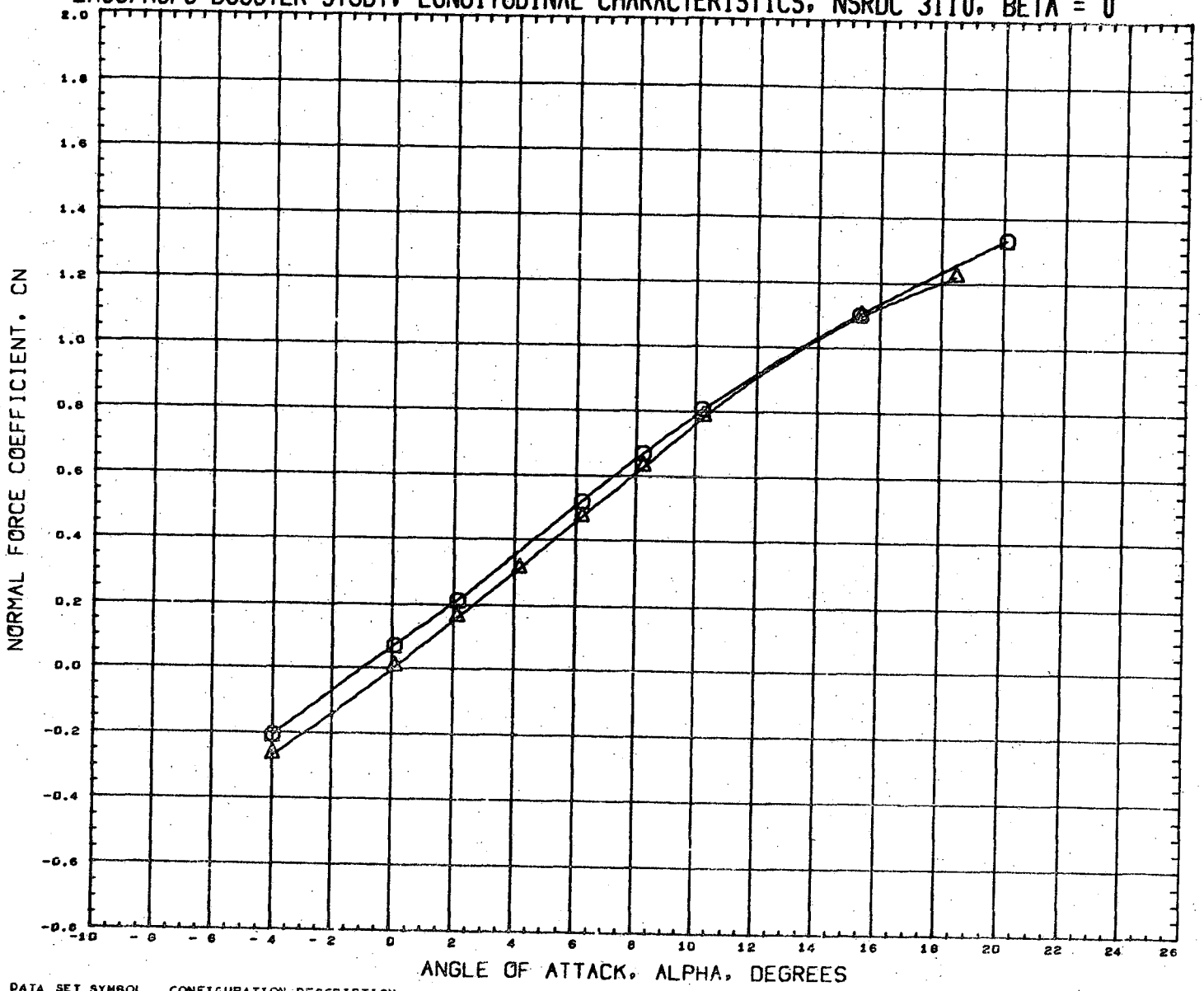
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2270)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000
(RN2282)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

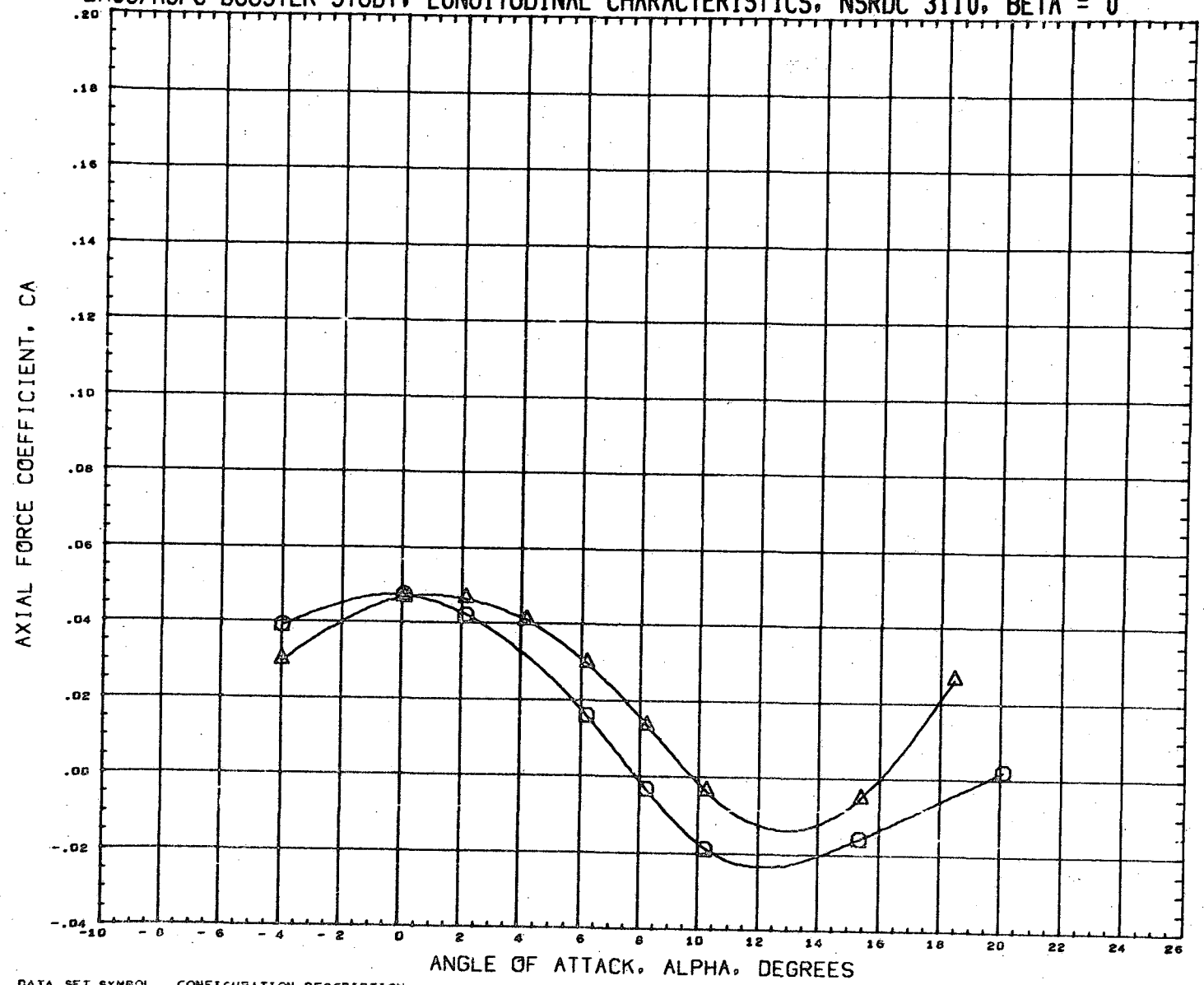


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	-1.000
(RN2017)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØOSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



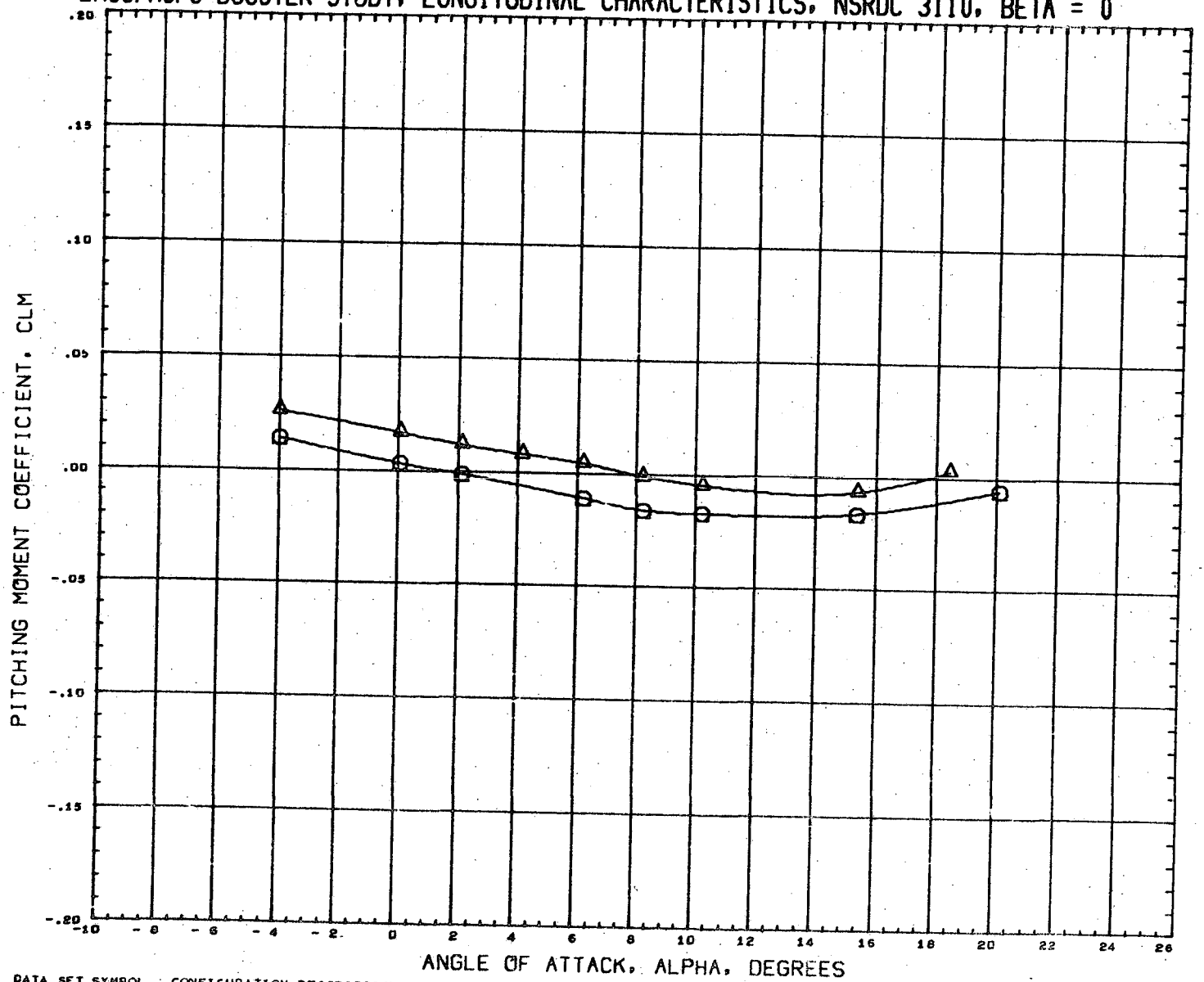
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2017)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

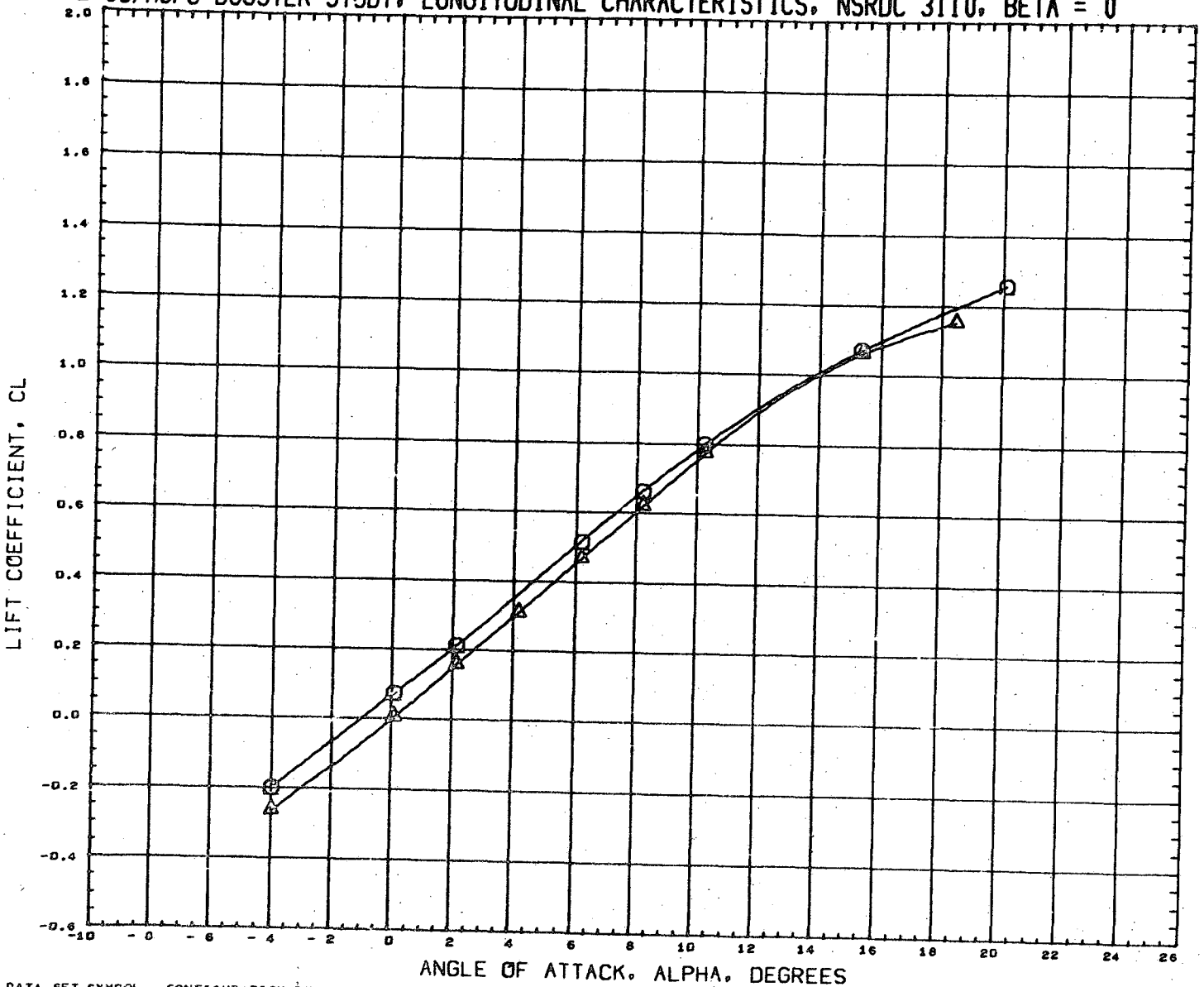


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2017)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2017)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

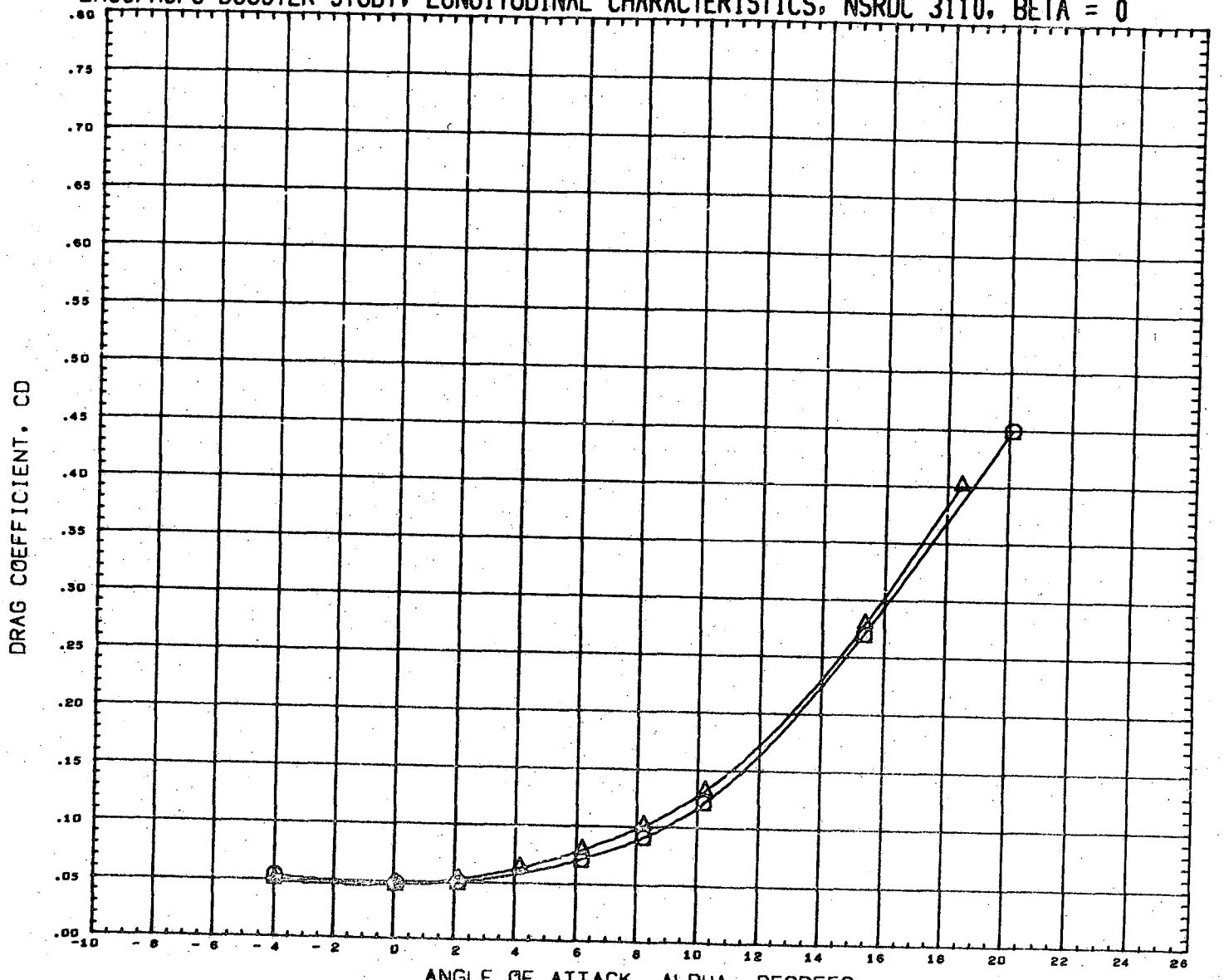
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

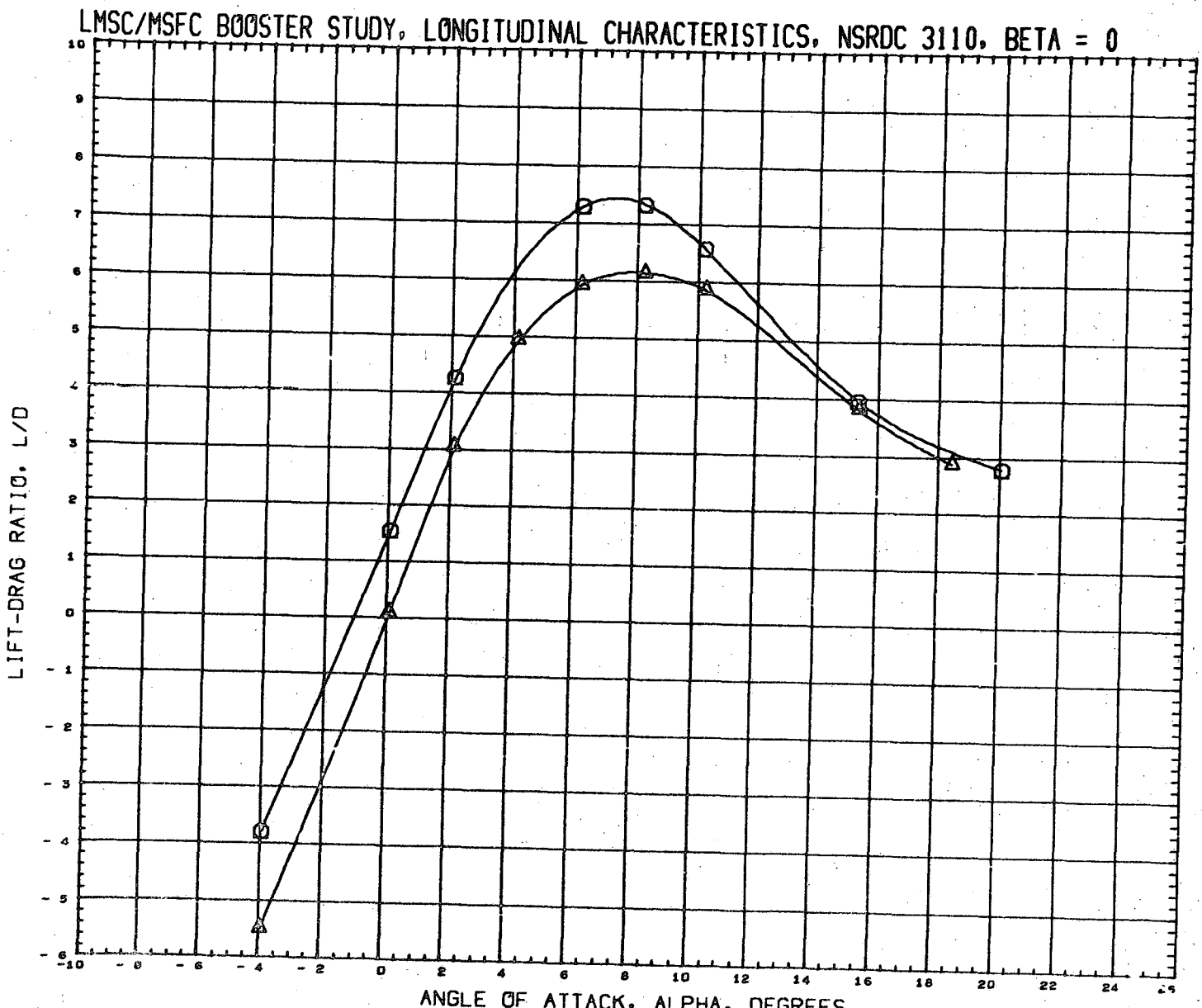
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2001)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2017)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



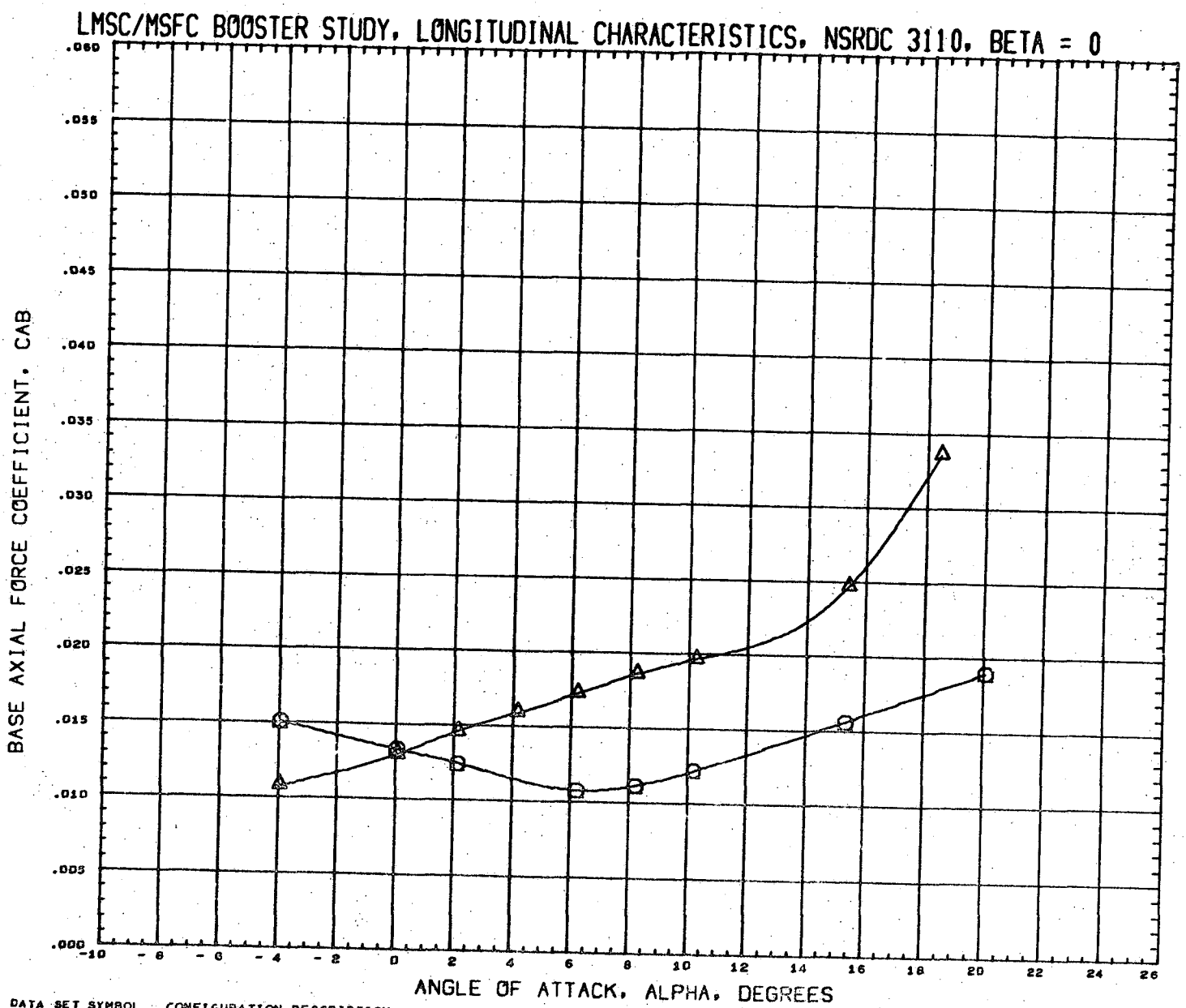
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2001)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2017)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



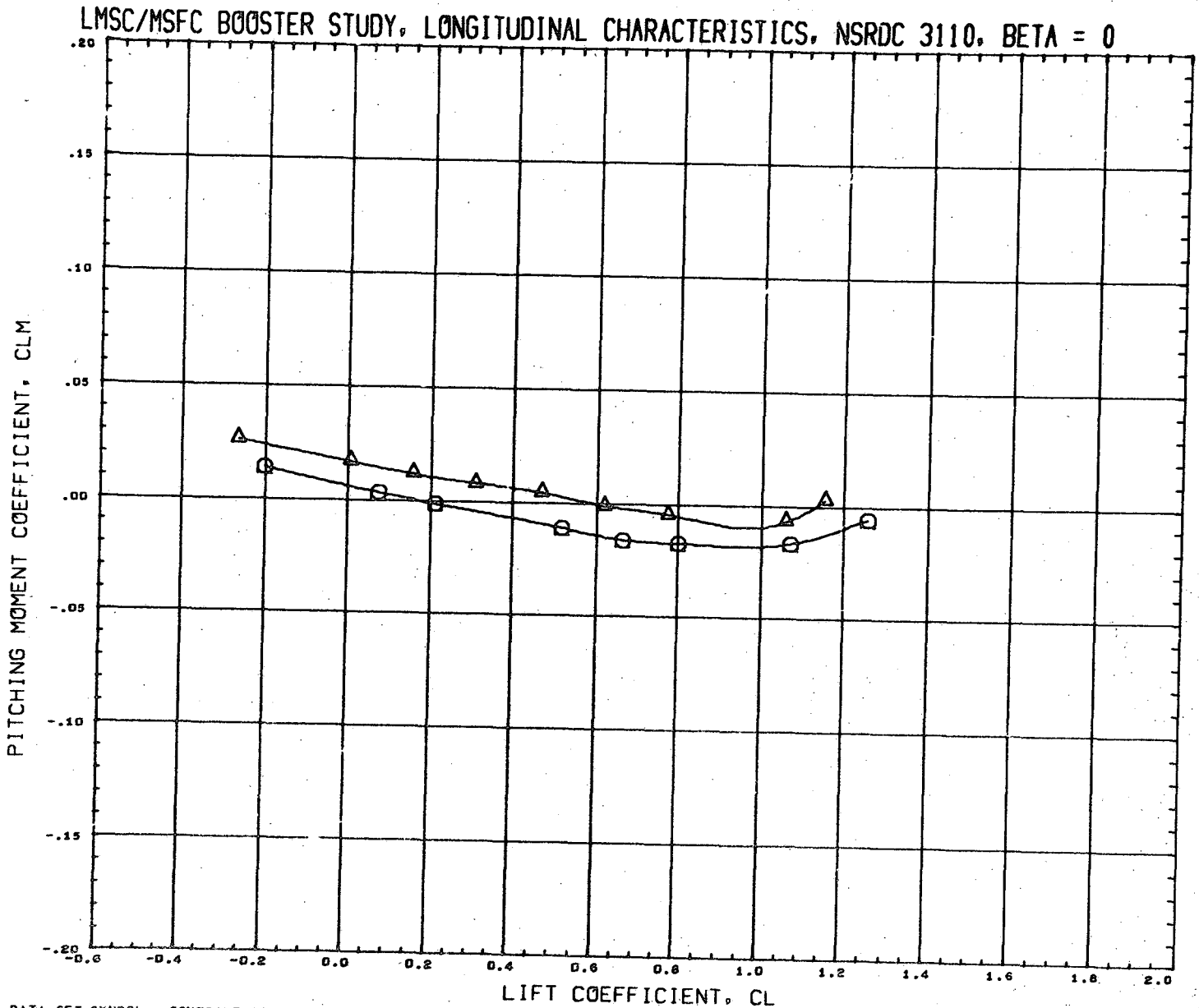
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2001)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2017)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.361



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2001)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2017)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

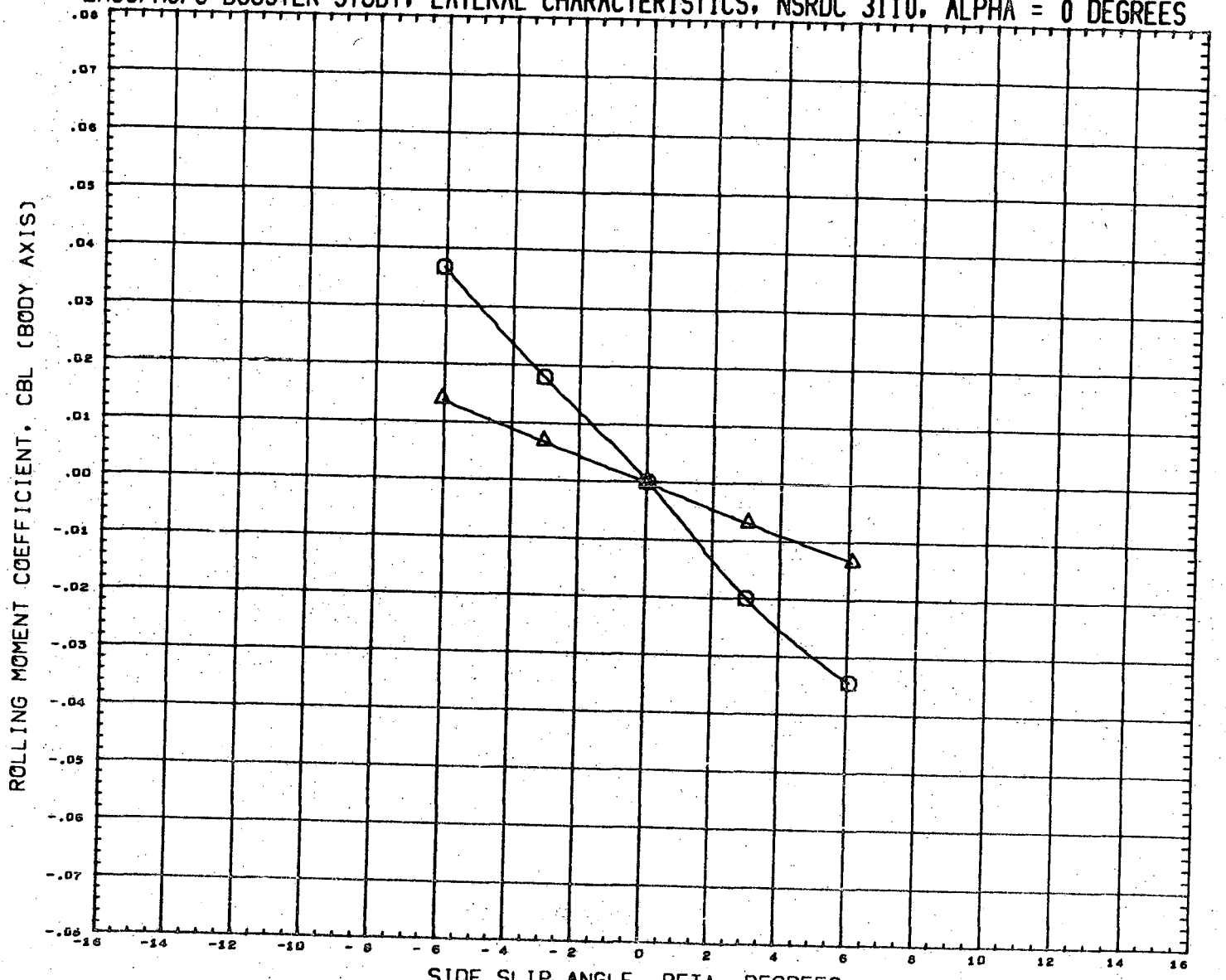
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

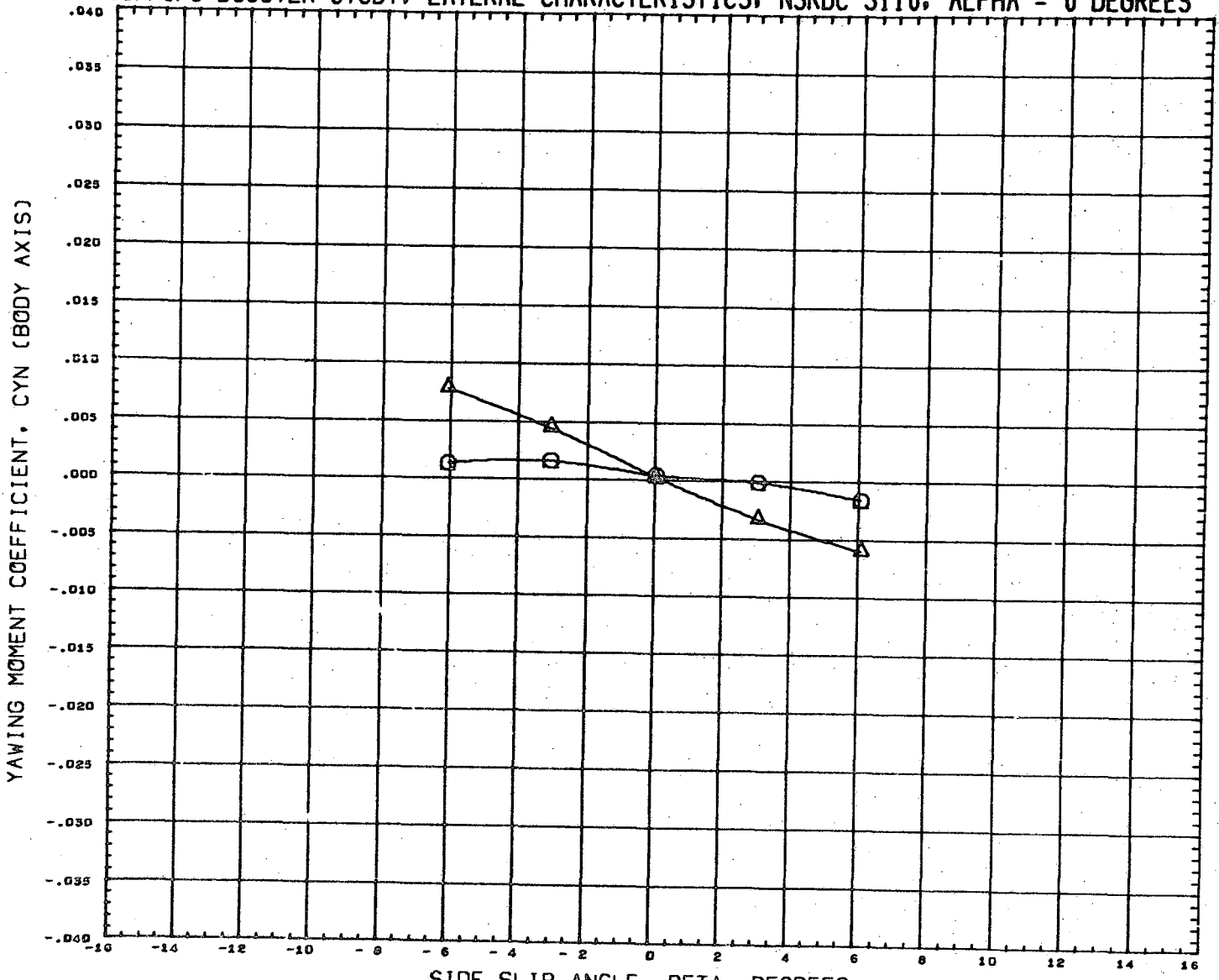


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2002) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2018) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØØSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

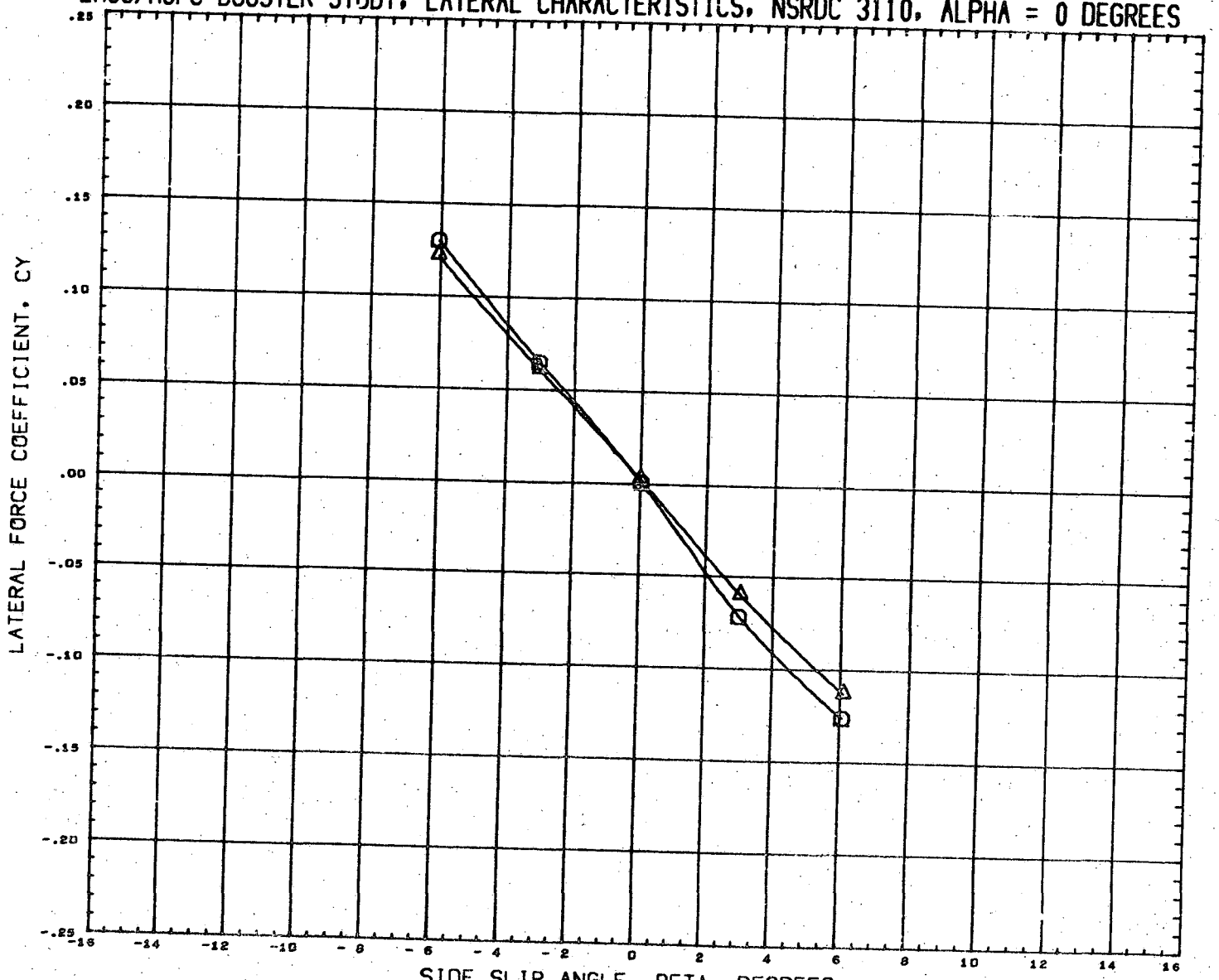


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2002)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2018)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

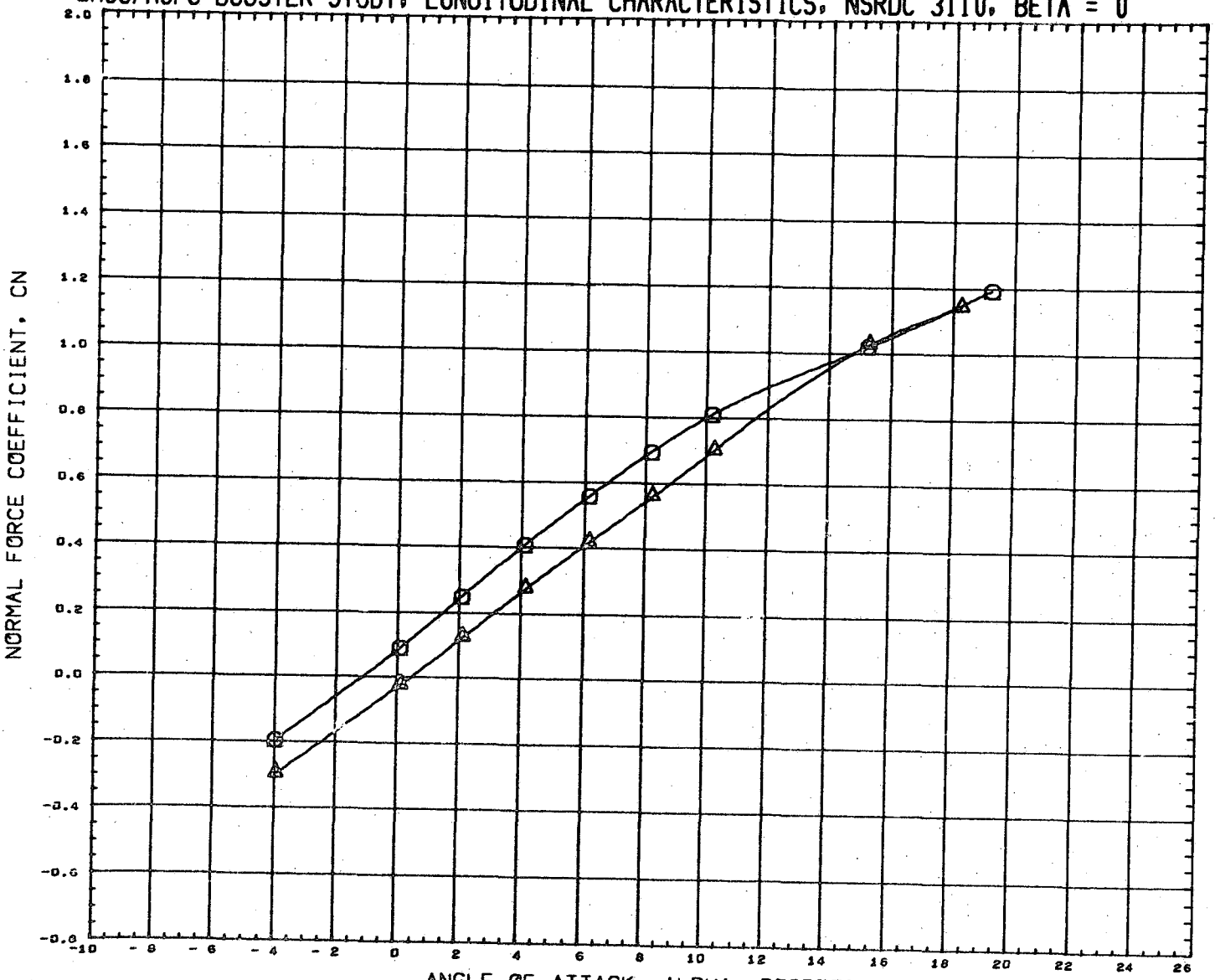


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2002)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000
(RN2018)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

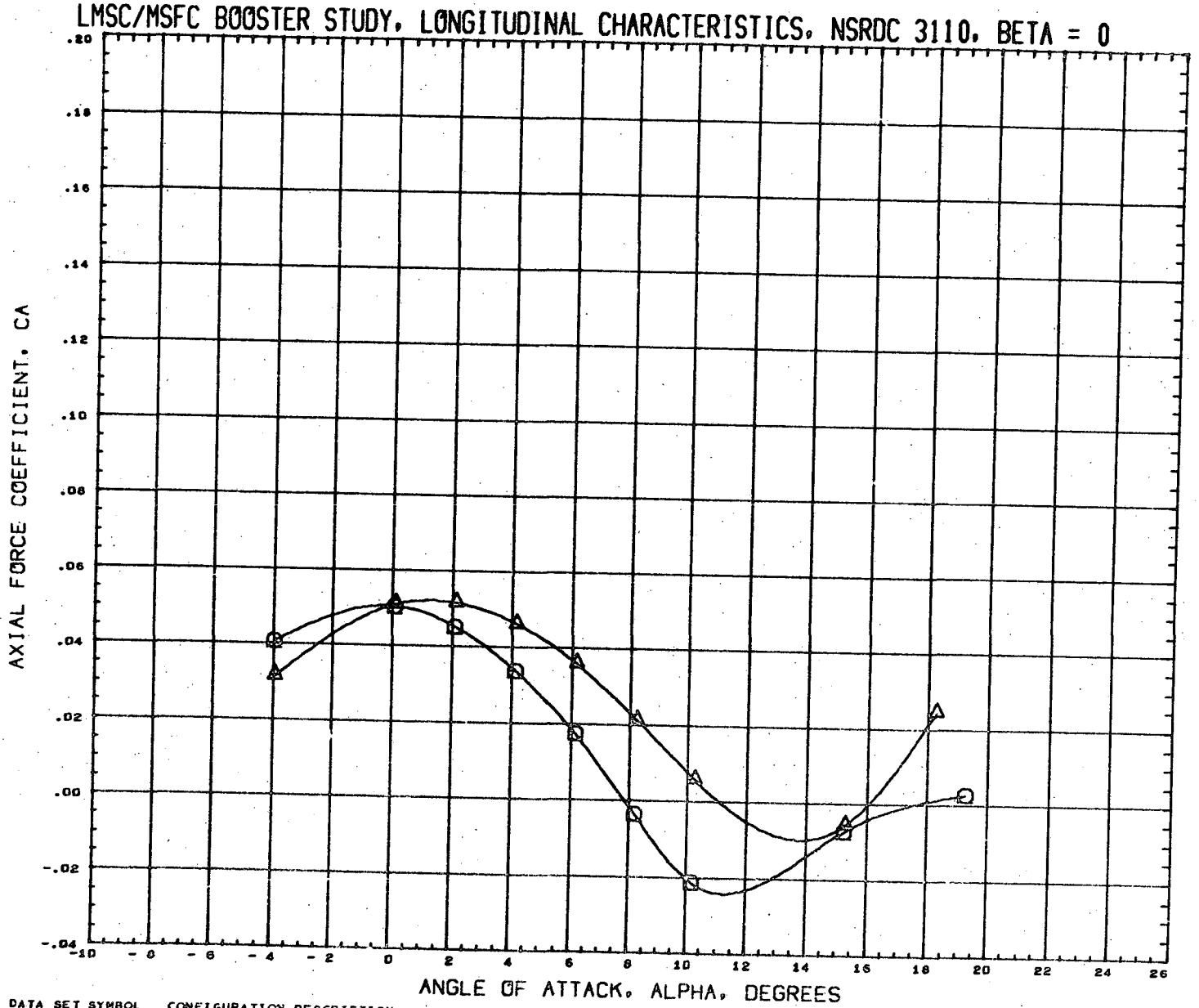
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2009)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2025)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



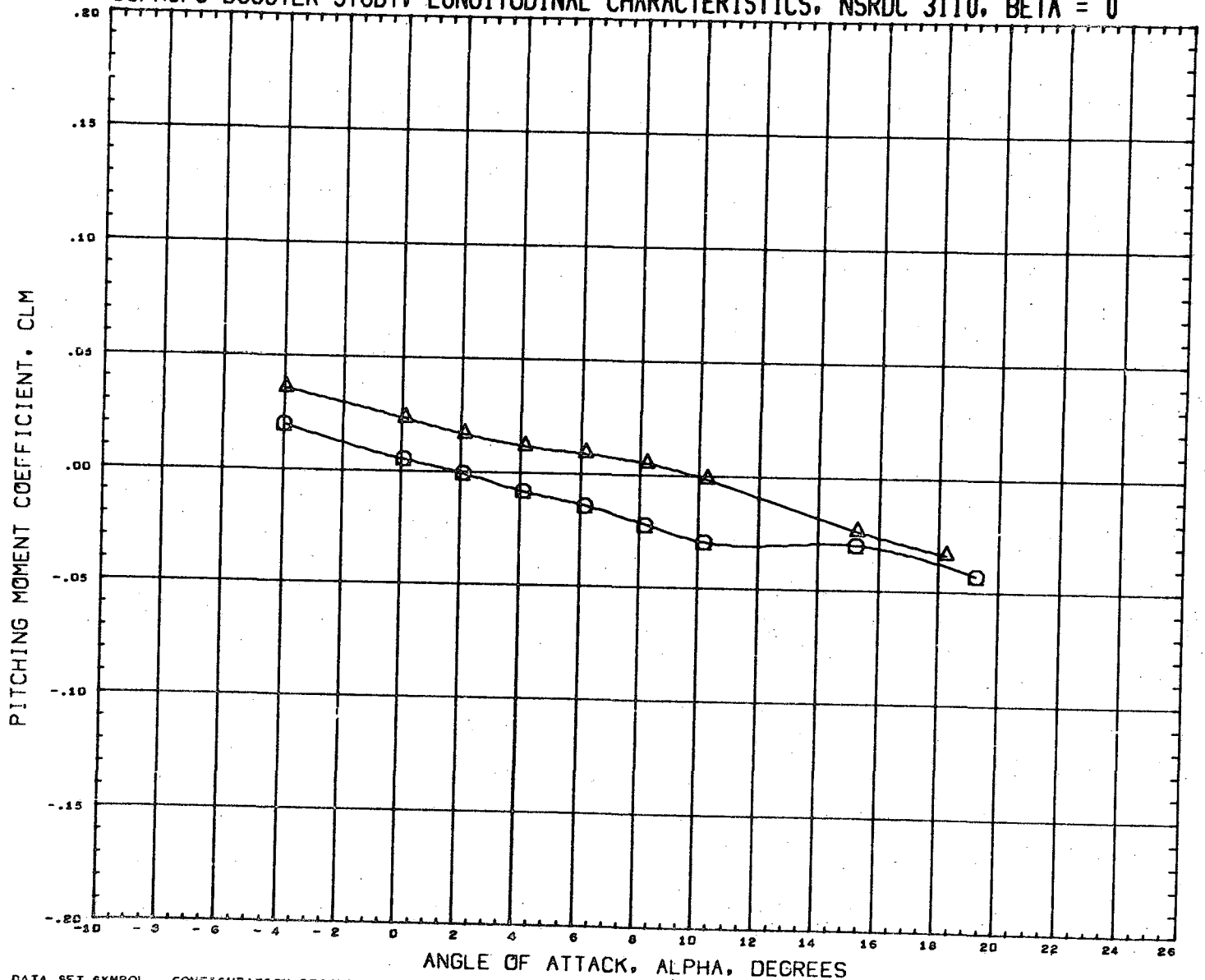
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2025)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORNATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.361

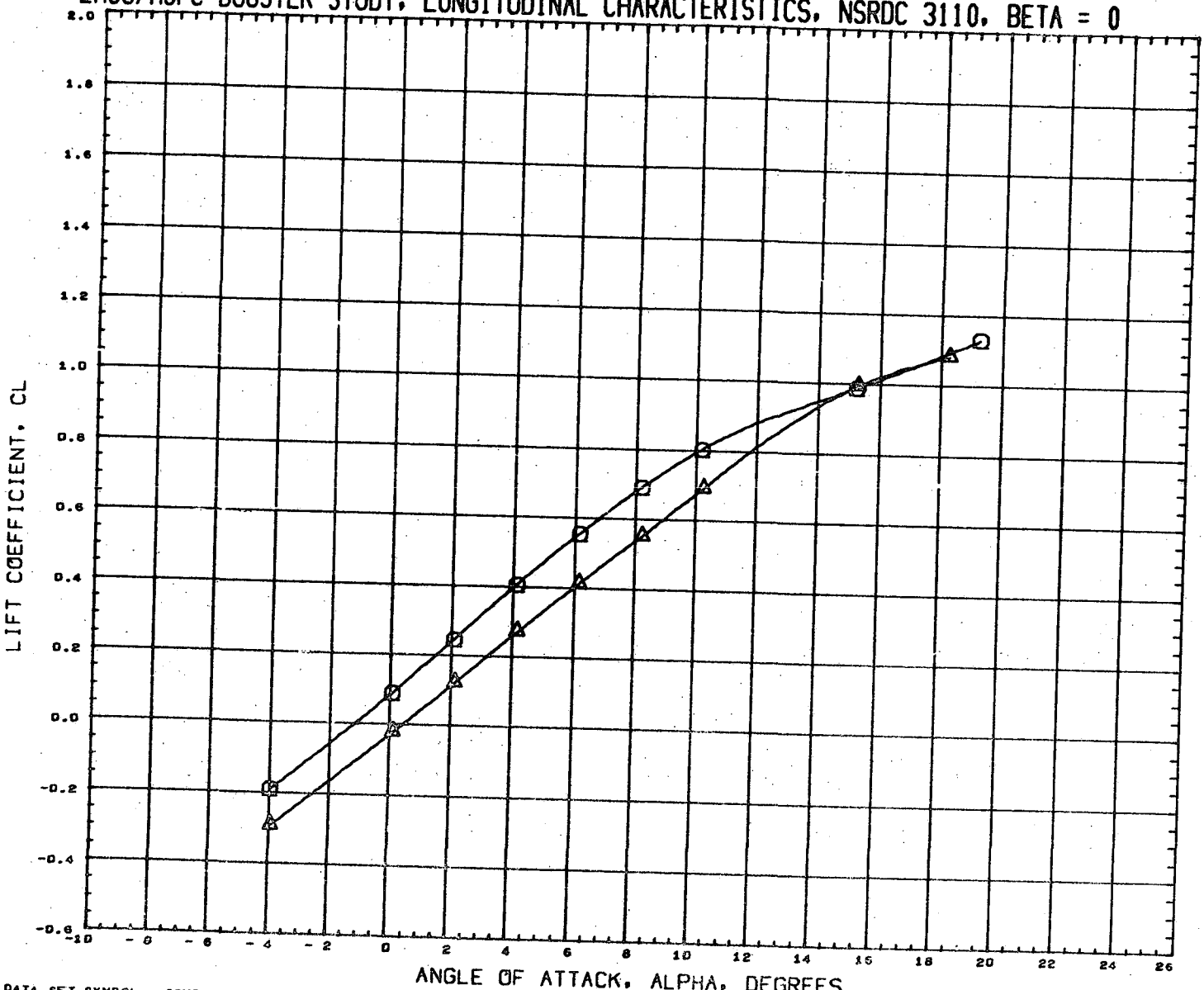


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2009)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2025)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.301

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2009)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2025)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

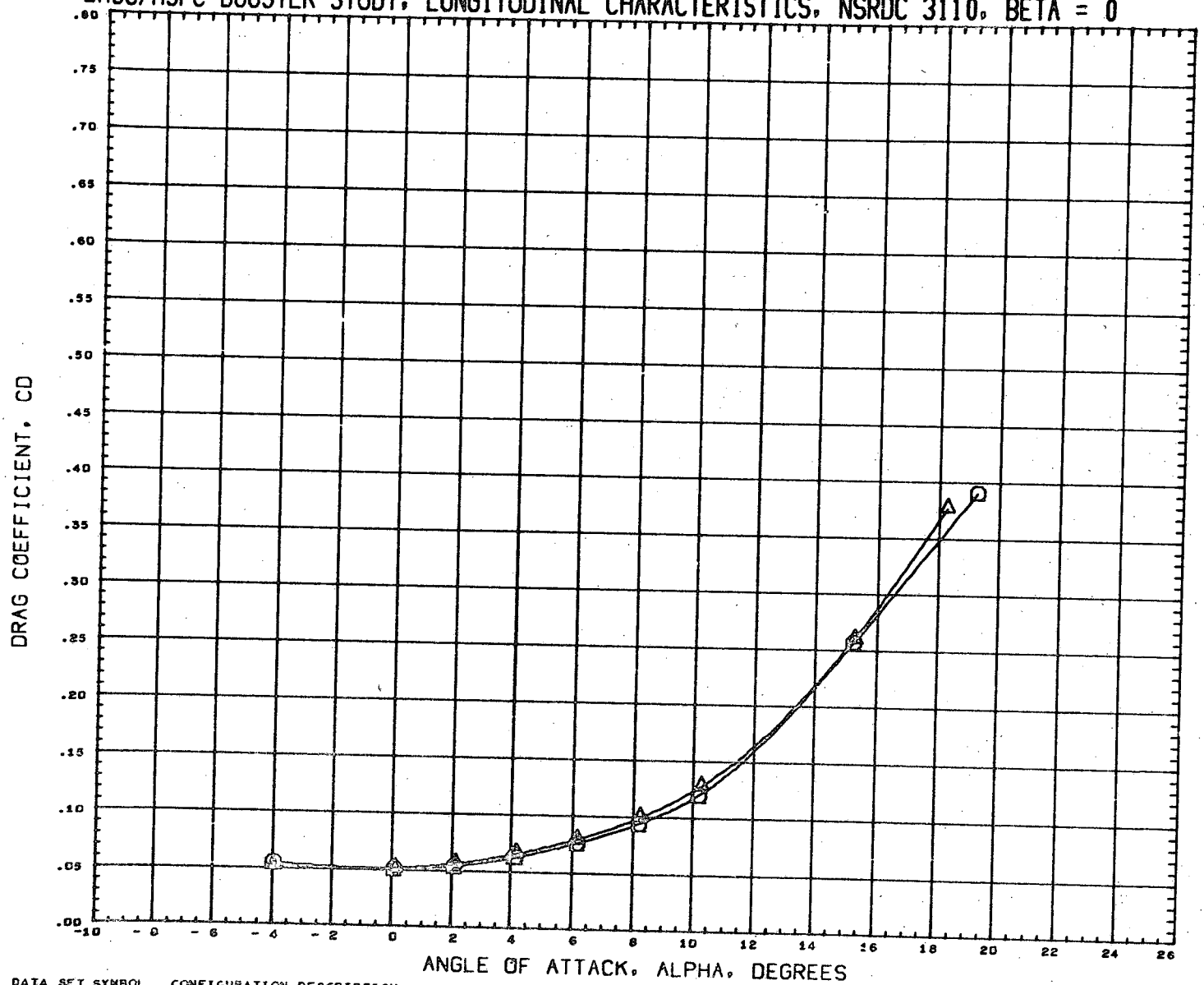
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

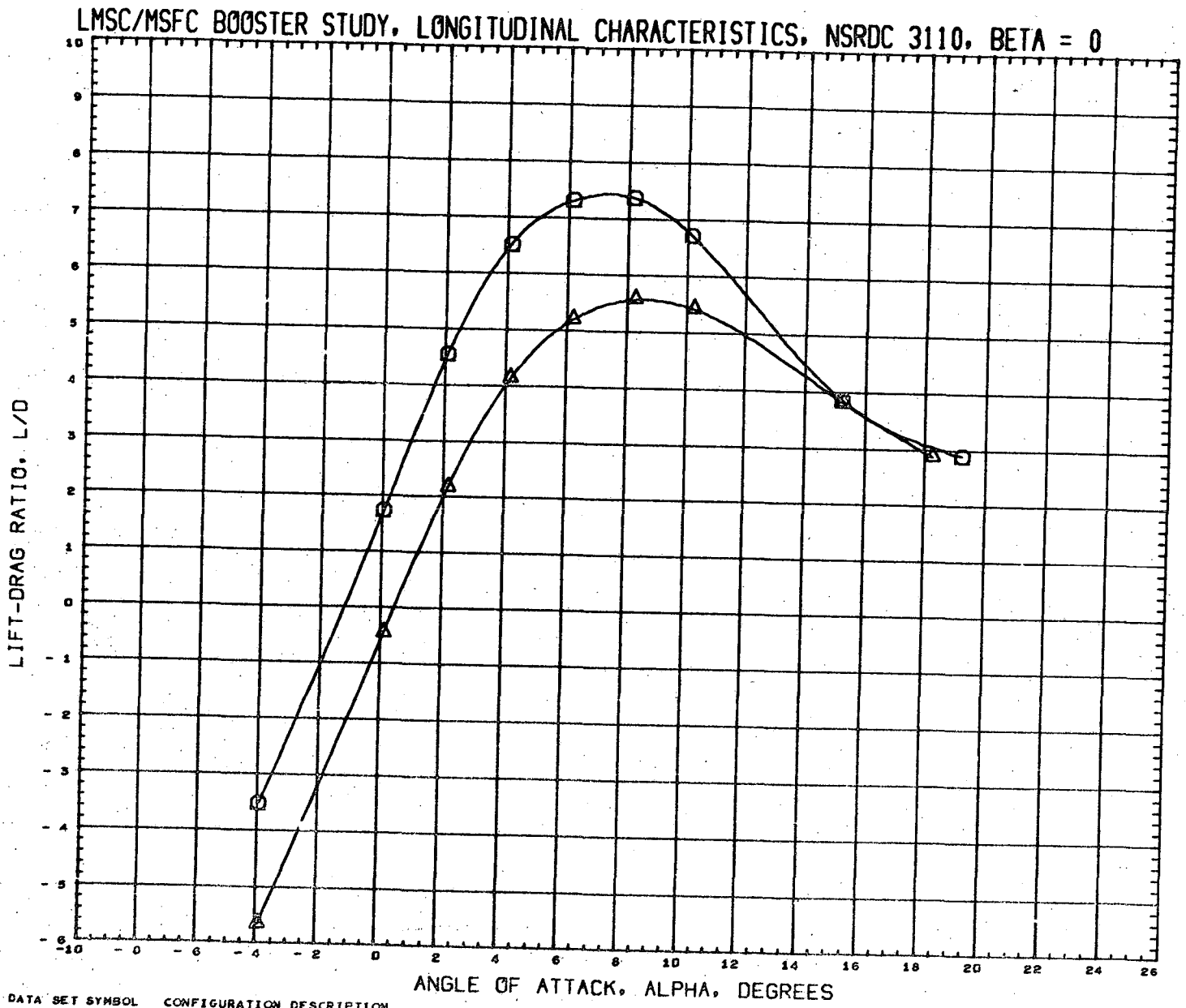


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2025)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.361

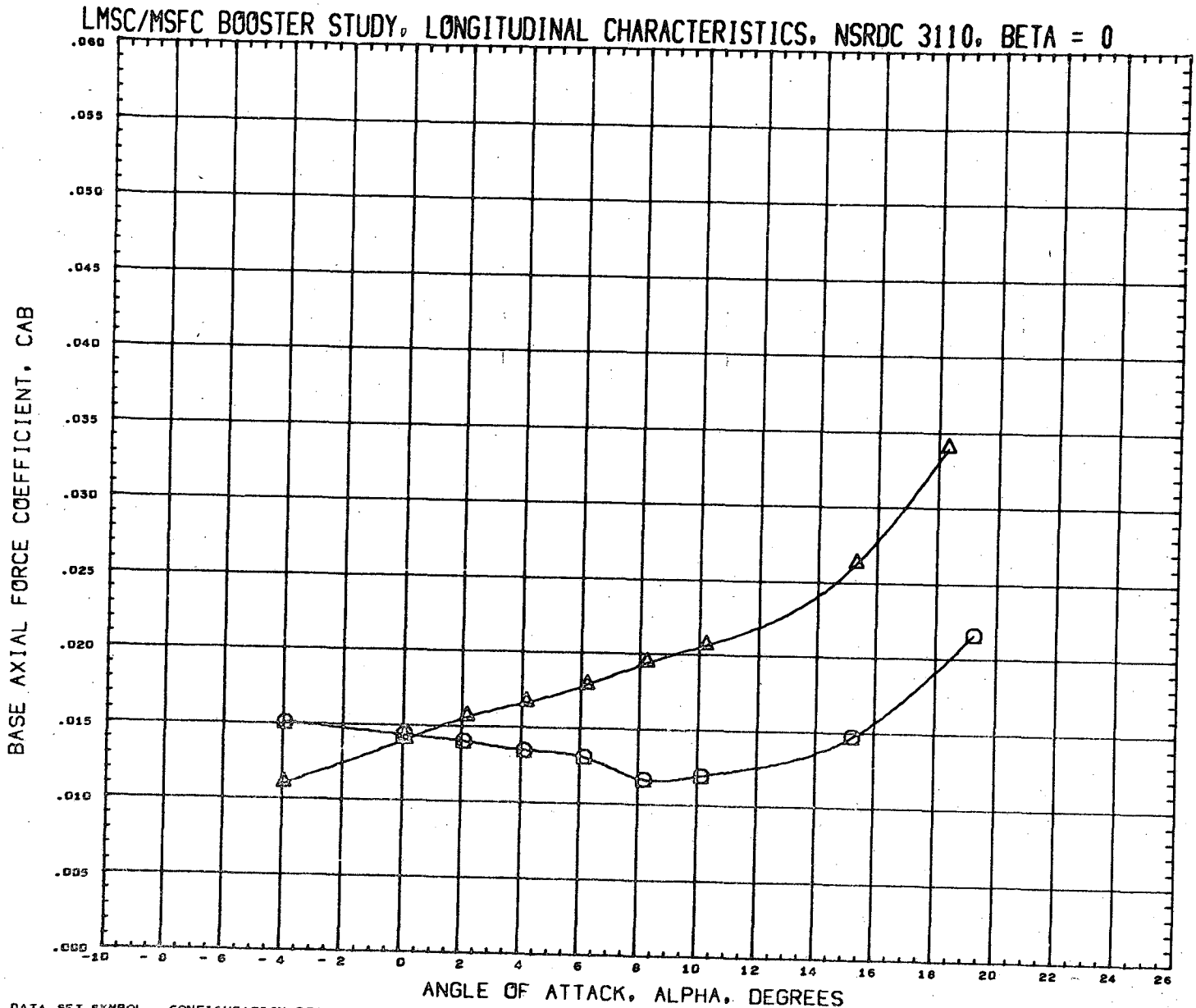


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2009)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2025)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381



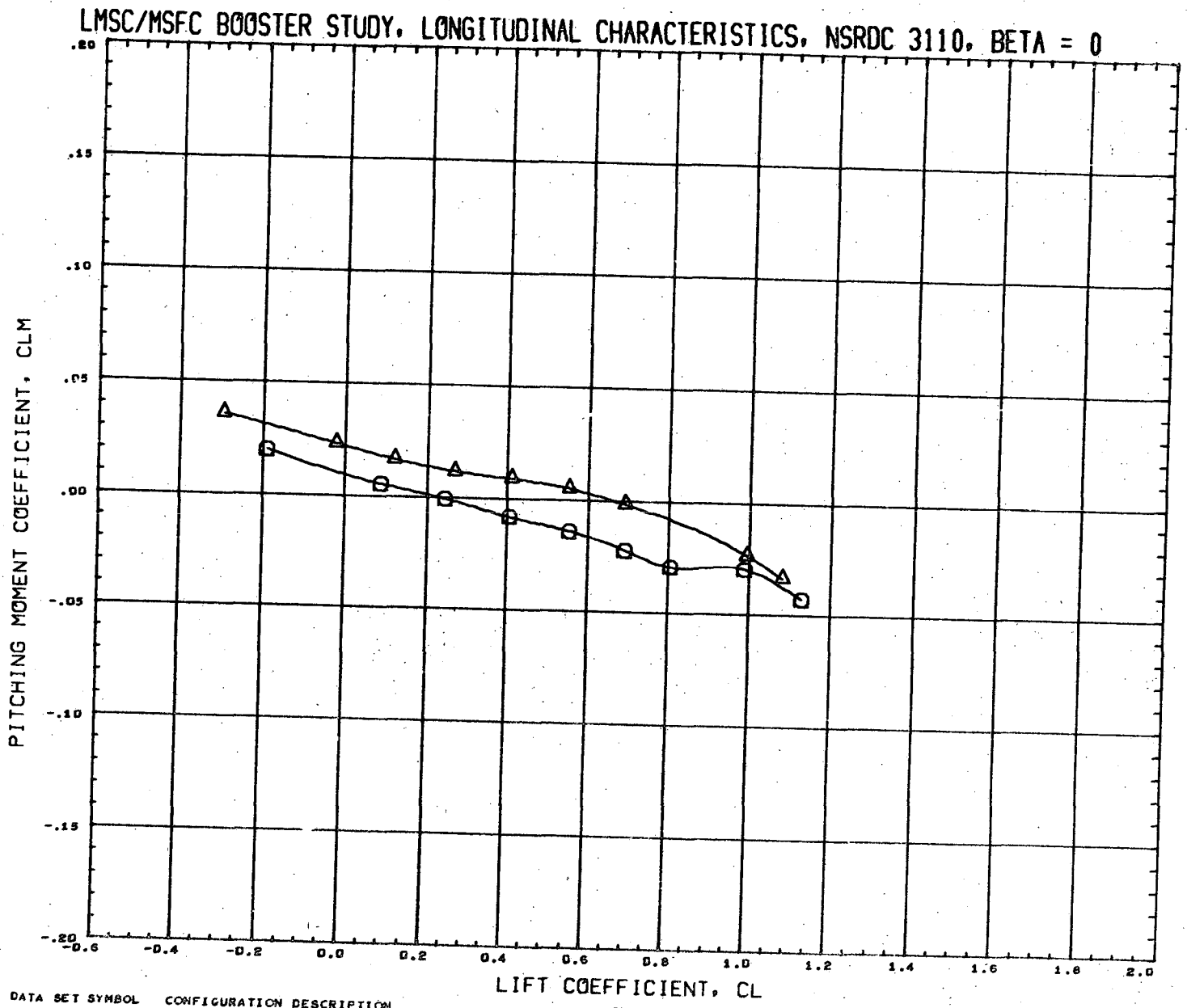
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2DD9)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2D25)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381



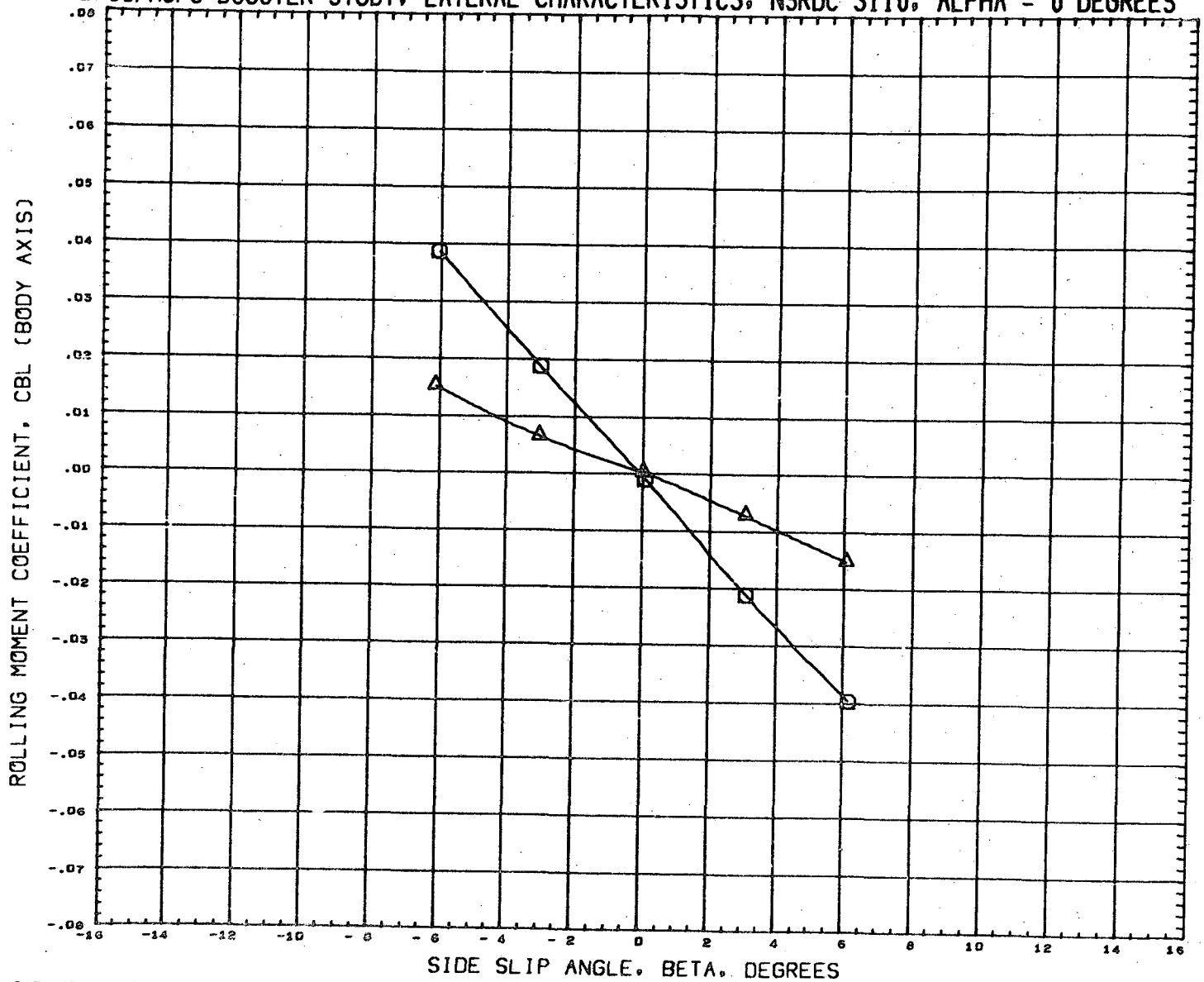
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2009)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2025)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

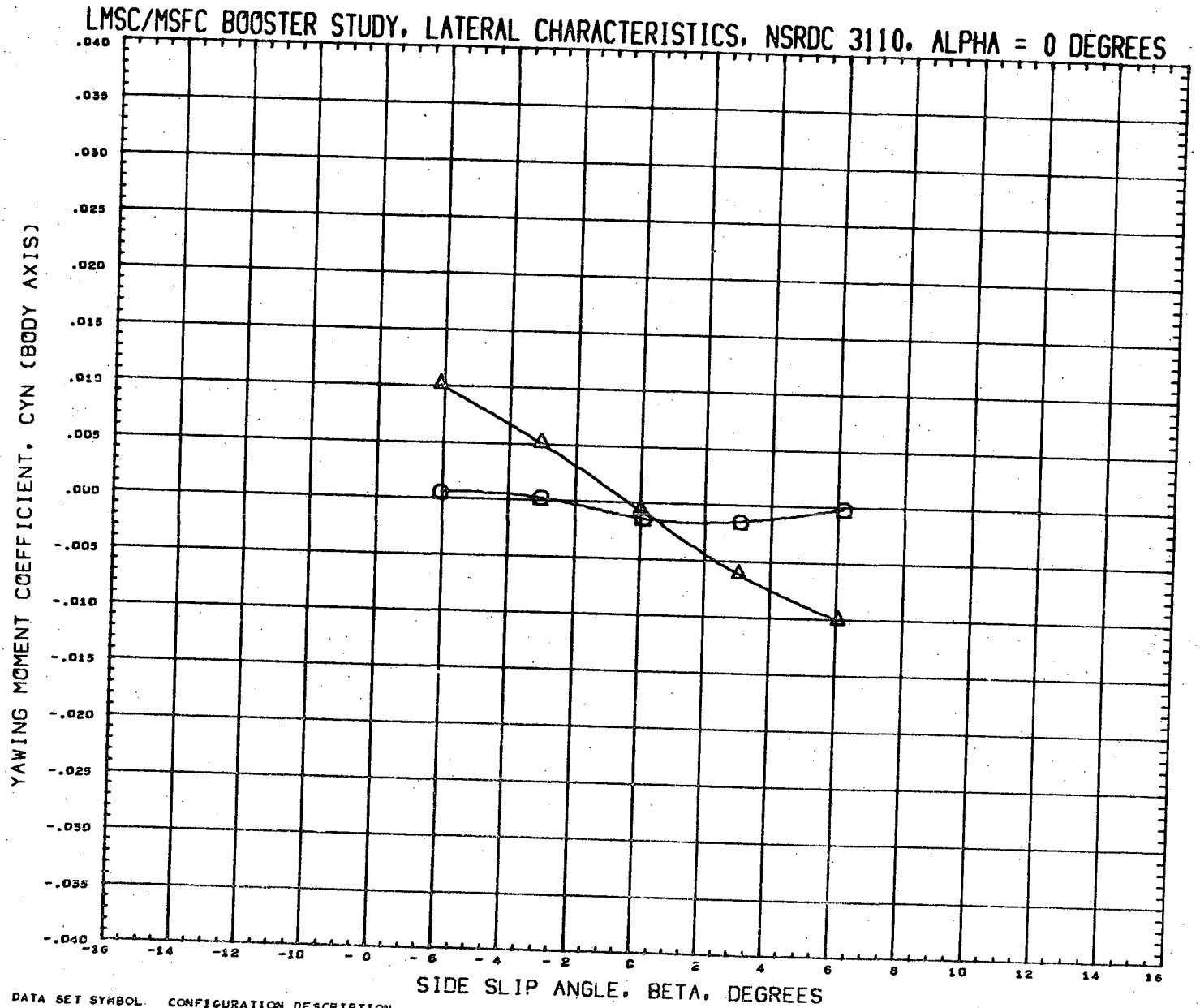
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2010)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2026)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

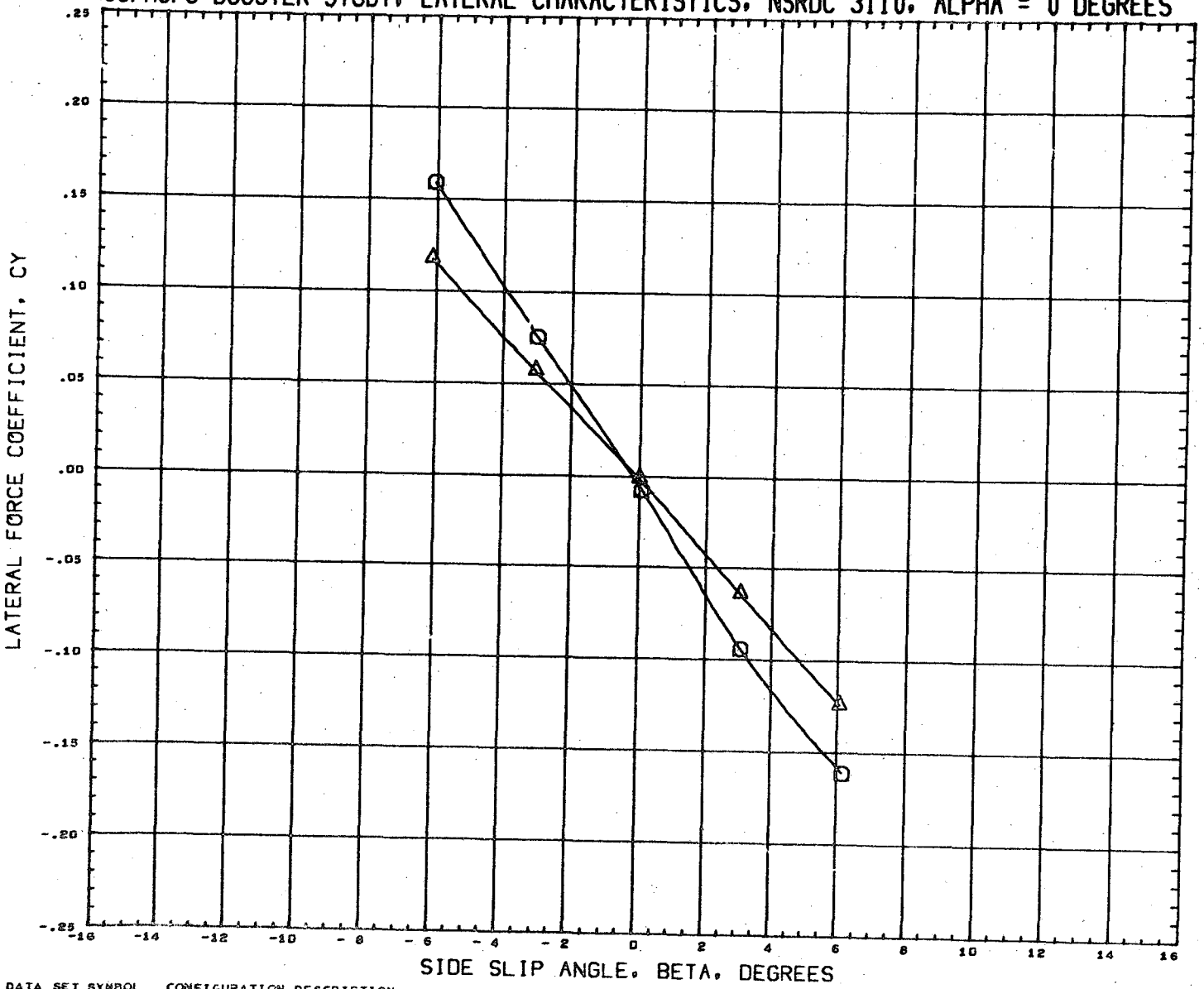


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2010) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2026) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

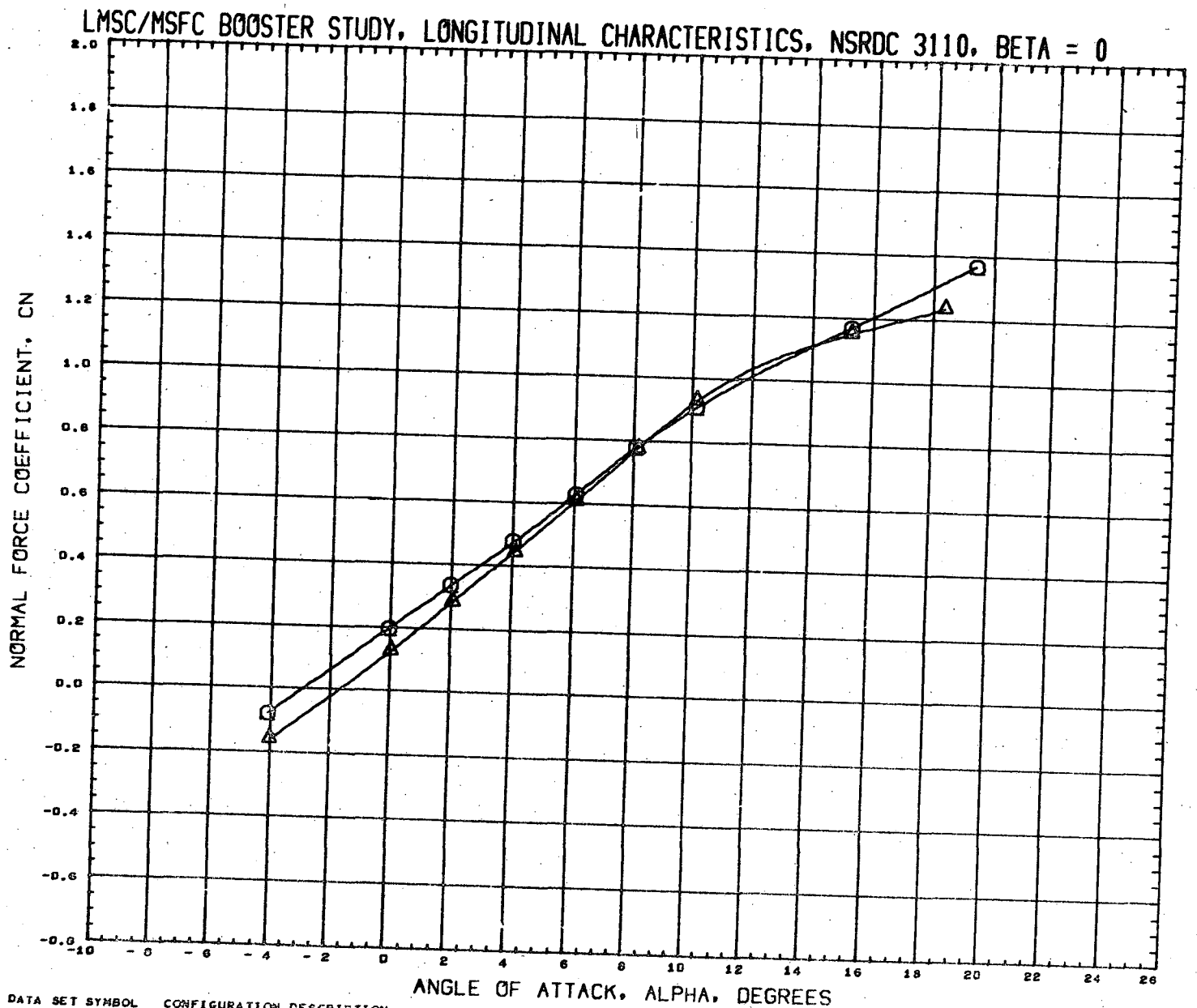
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2010)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000
(RN2026)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



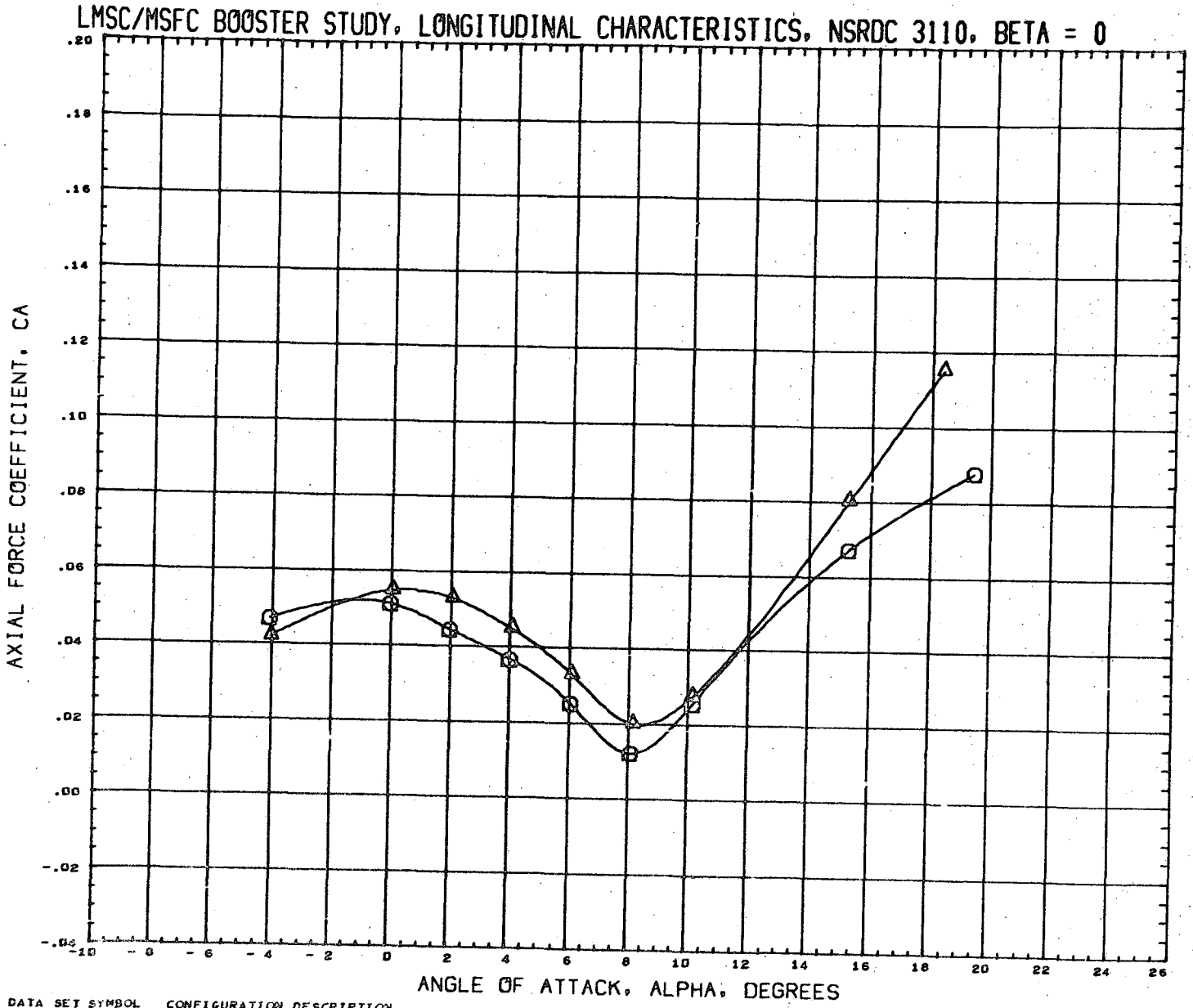
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2225)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2241)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

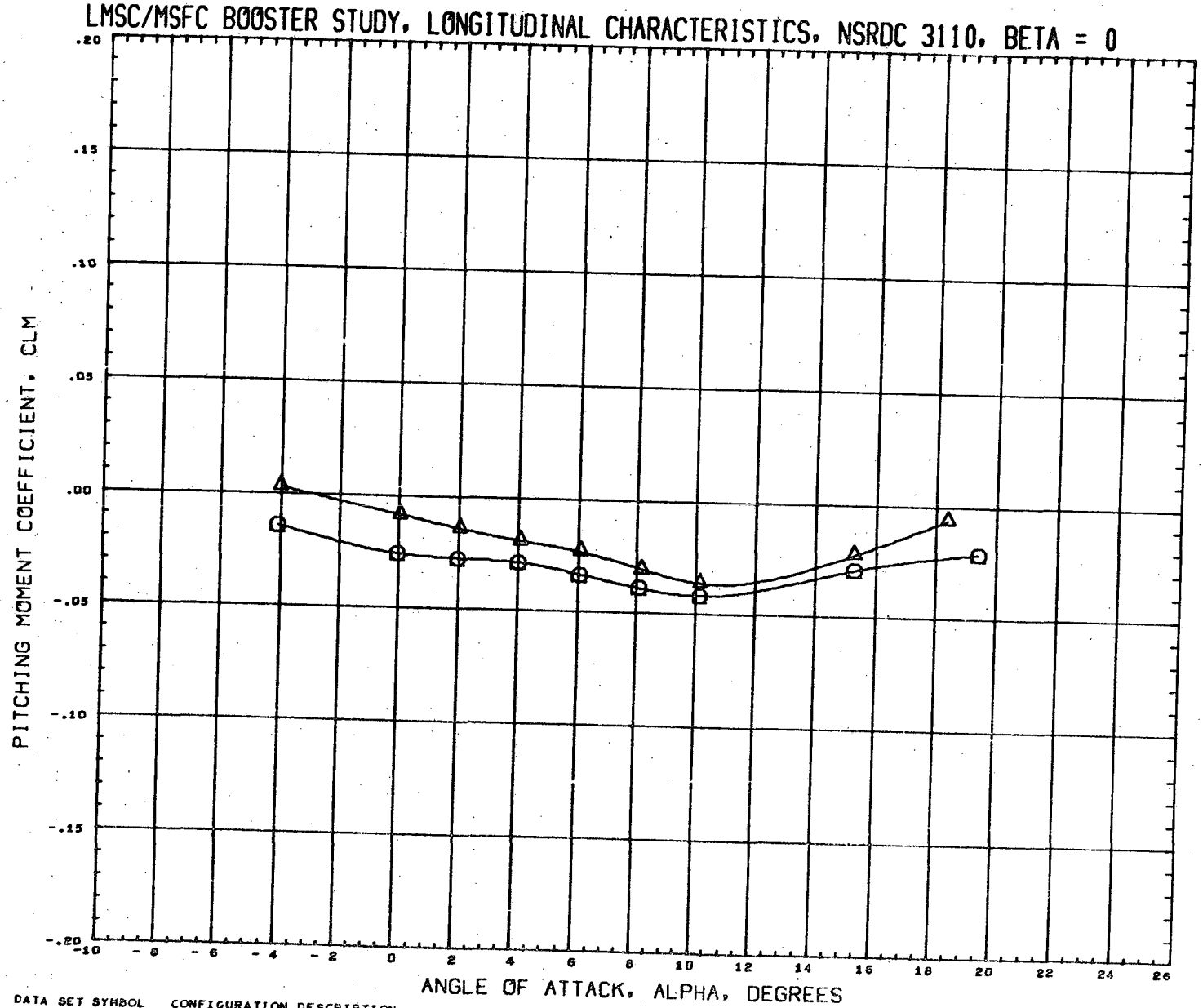
MACH 0.381



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2225)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000
(RN2241)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

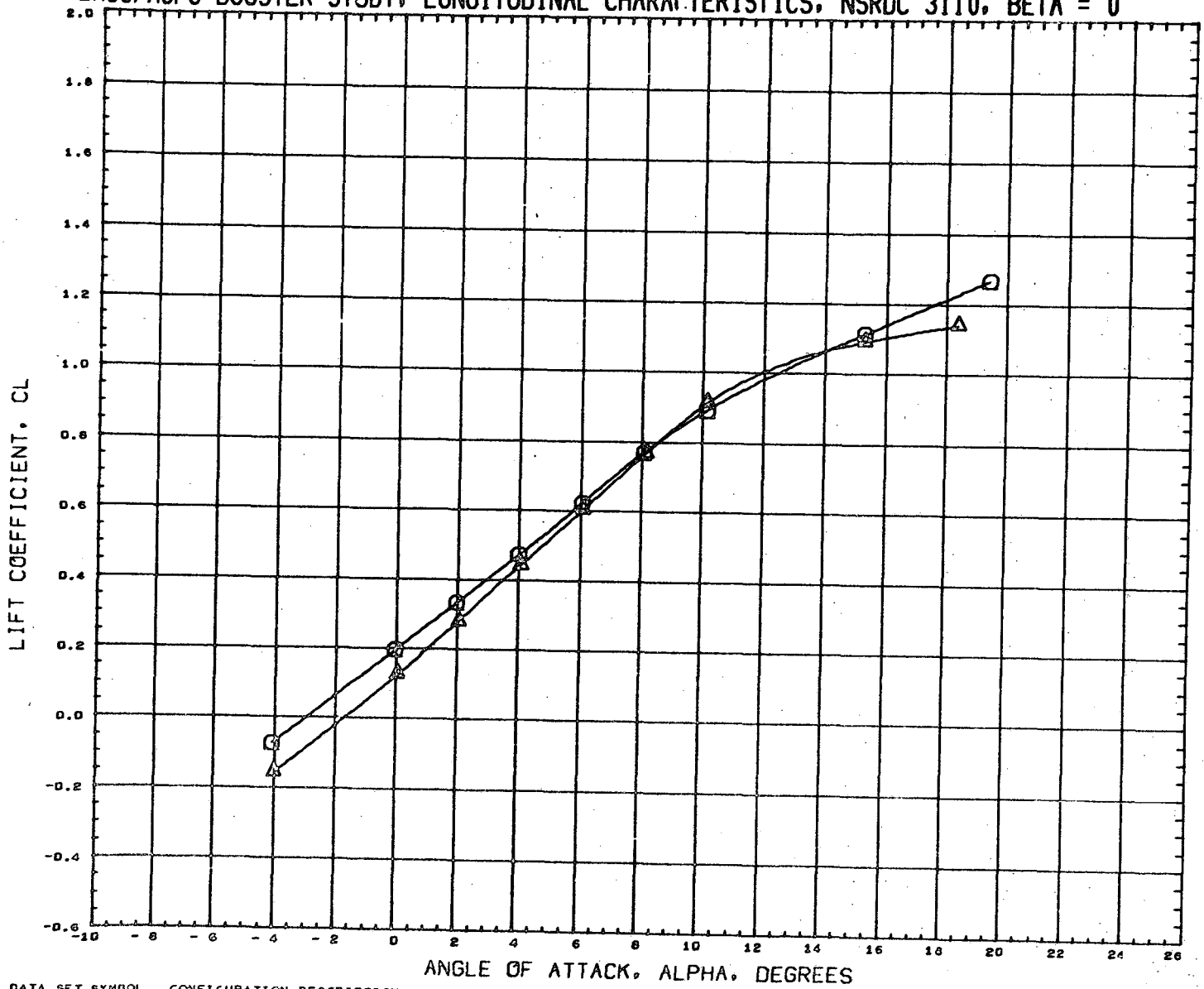


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2225)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000
(RN2241)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

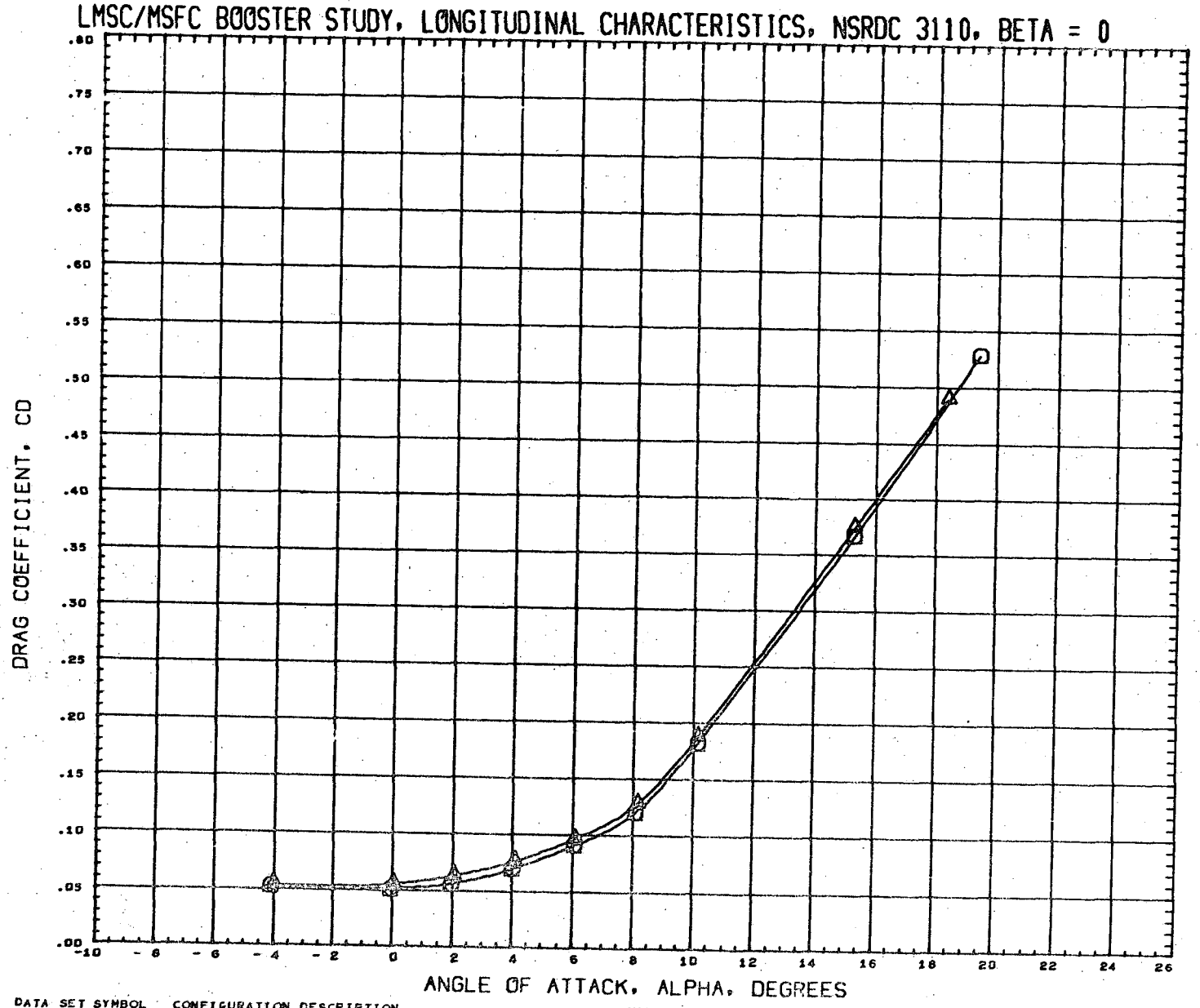
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2225)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000
(RN2241)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

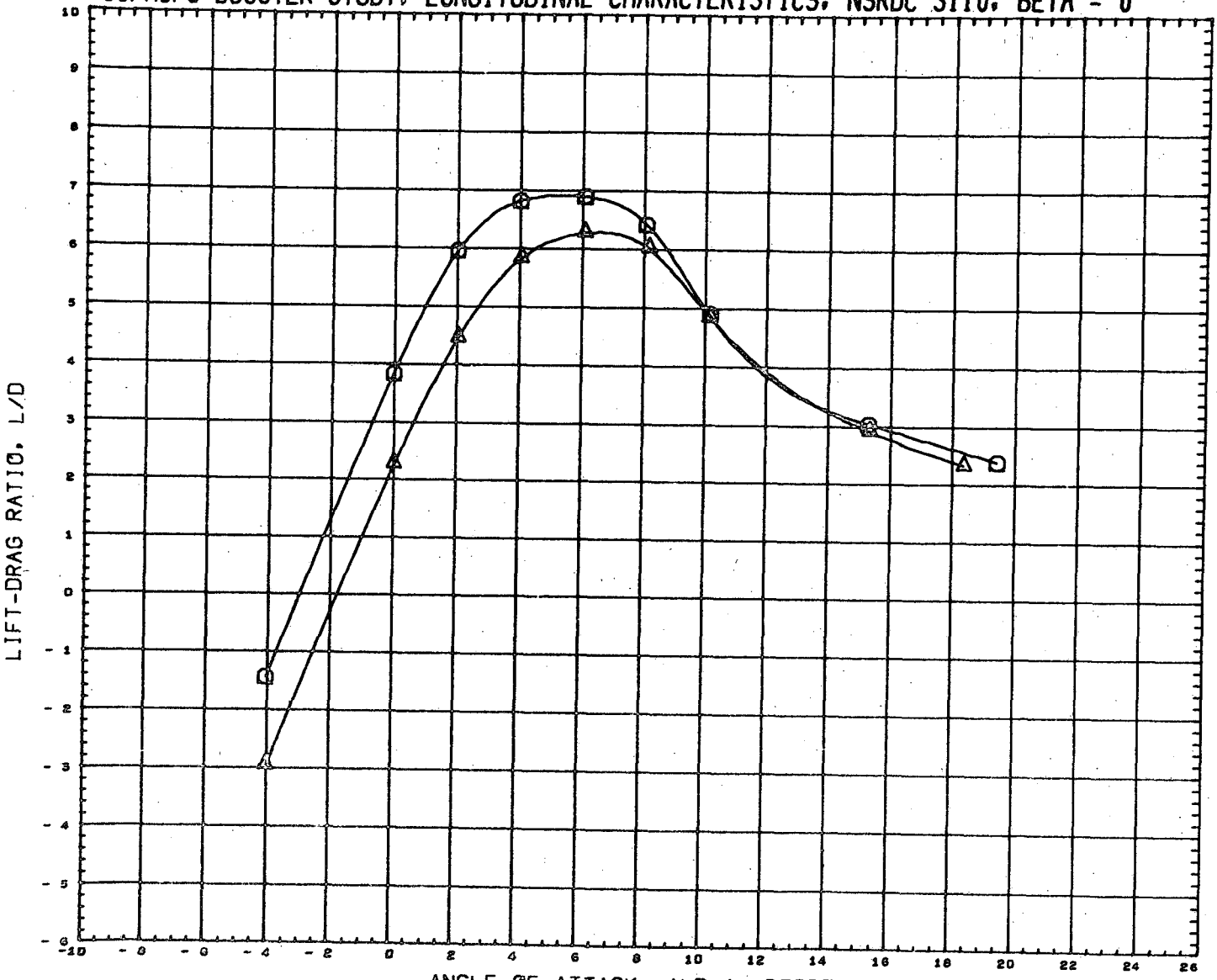


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2225)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000
(RN2241)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

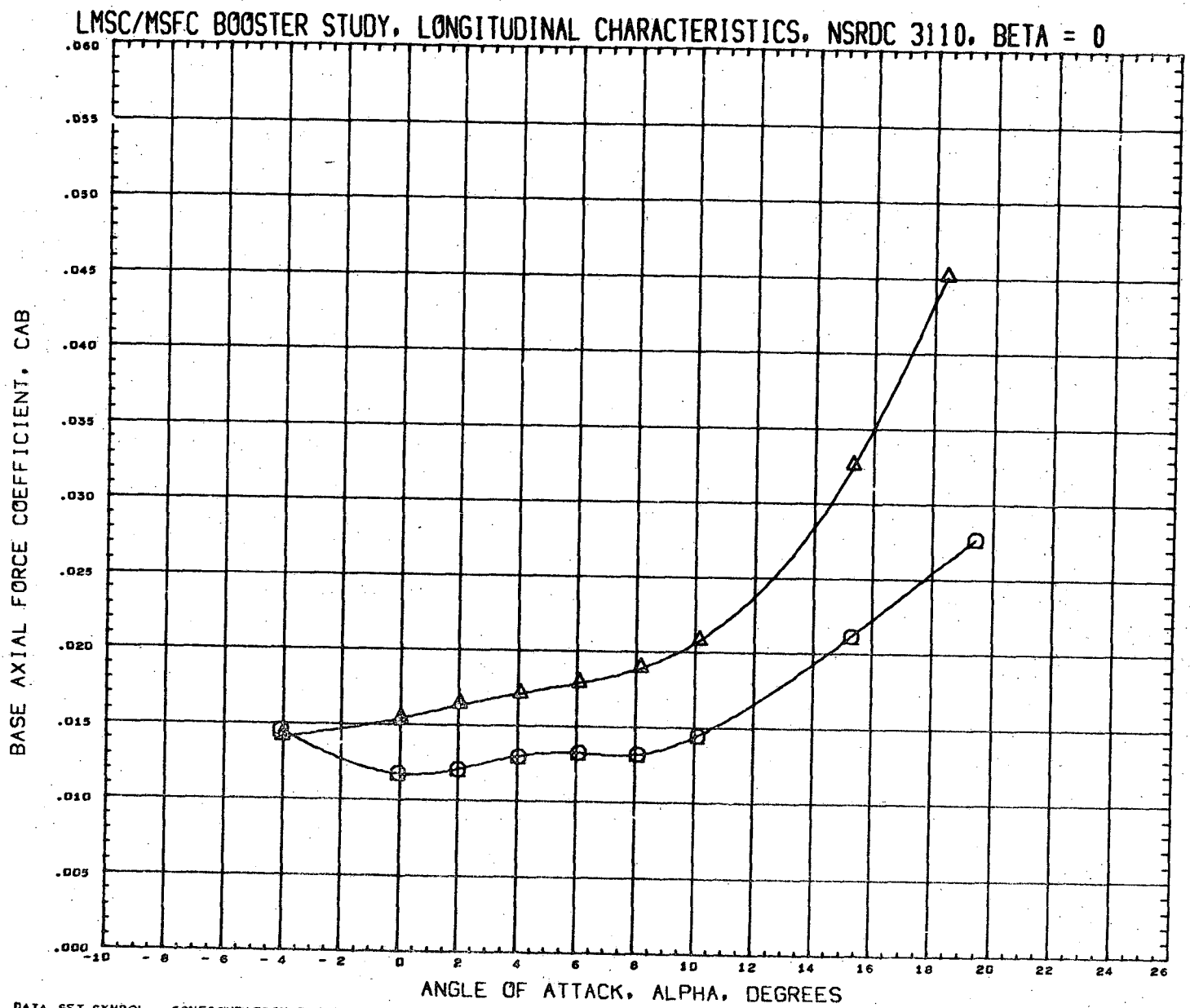


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2225)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000
(RN2241)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.301

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

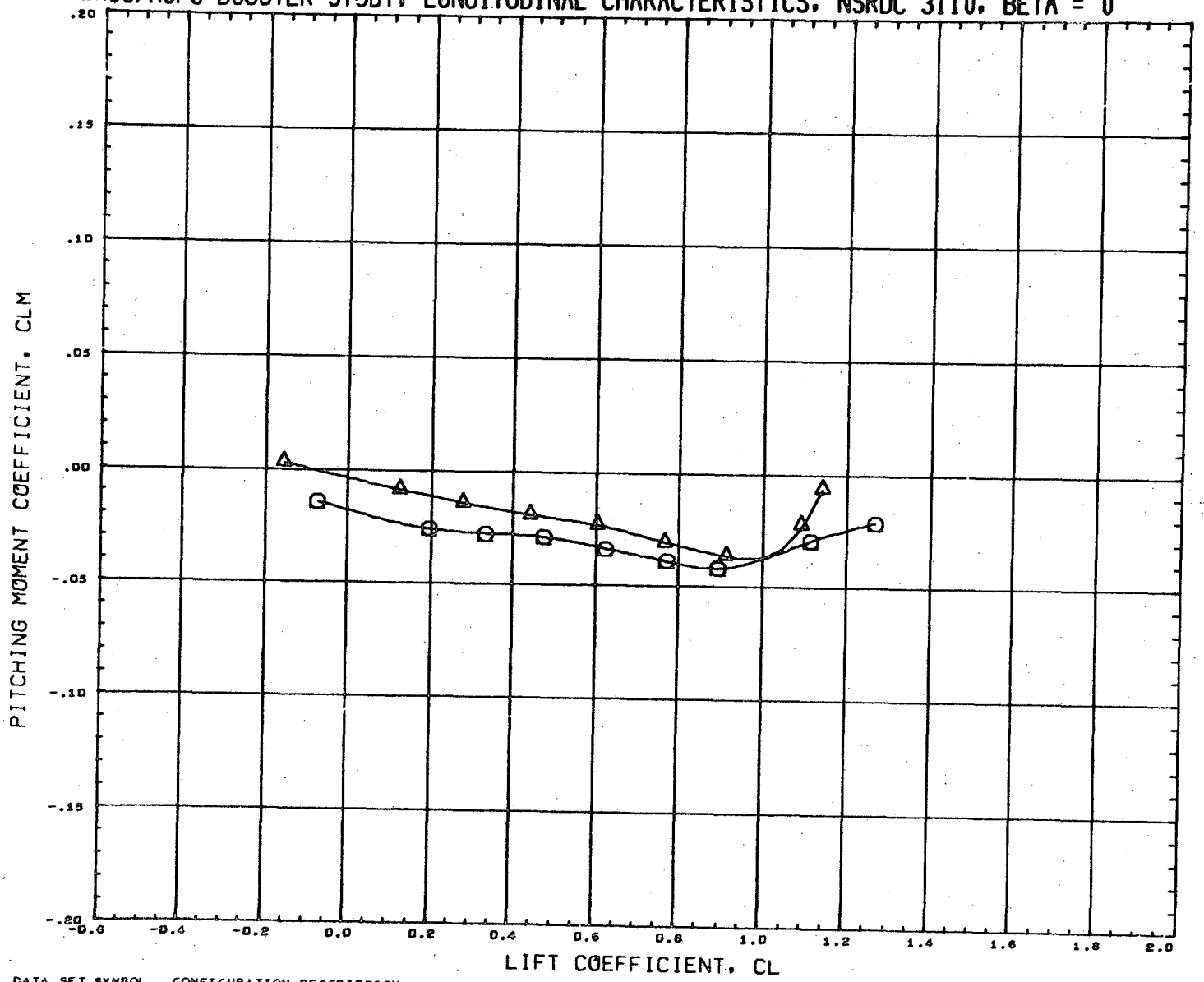


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2225)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000
(RN2241)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2225)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2241)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

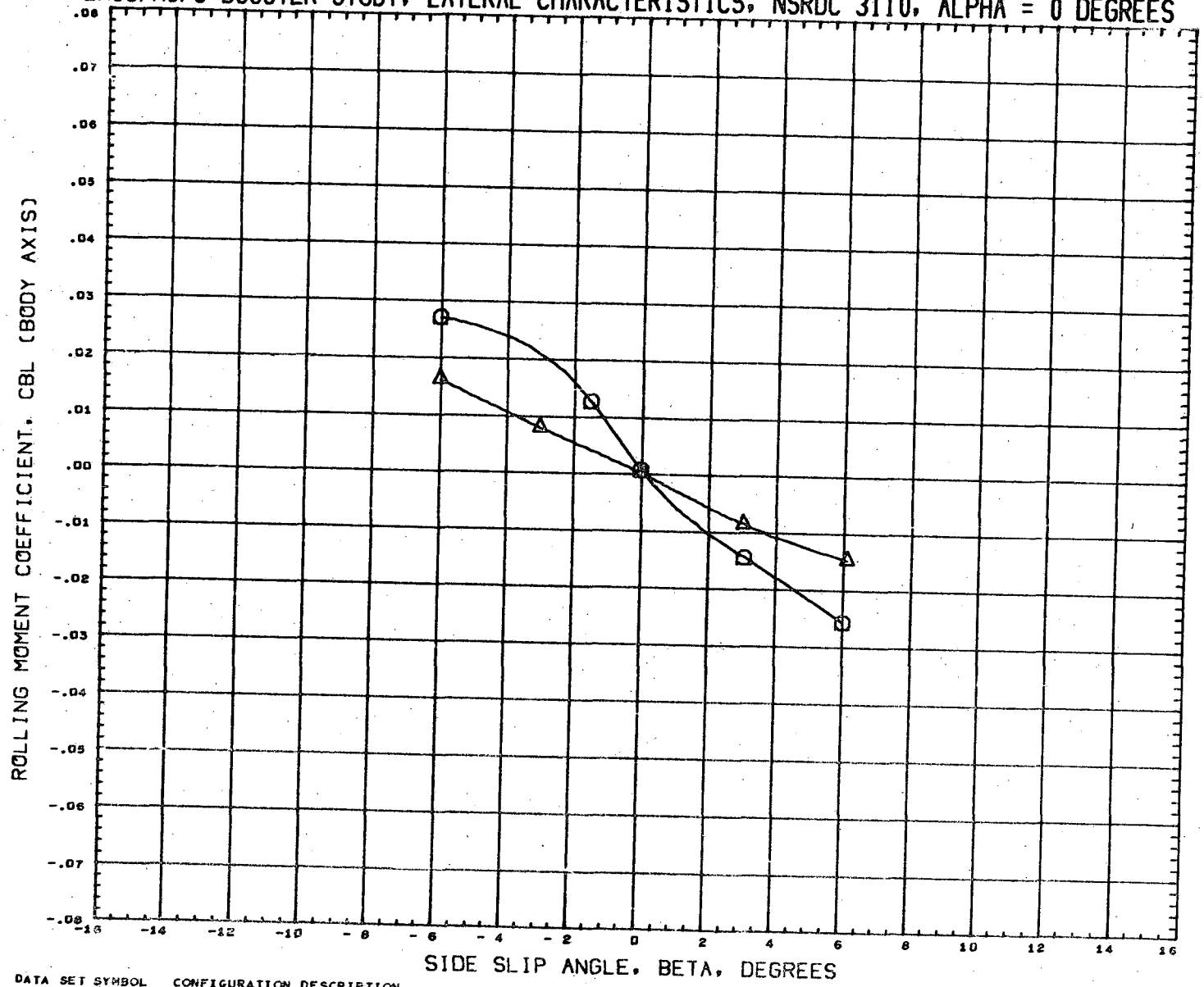
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



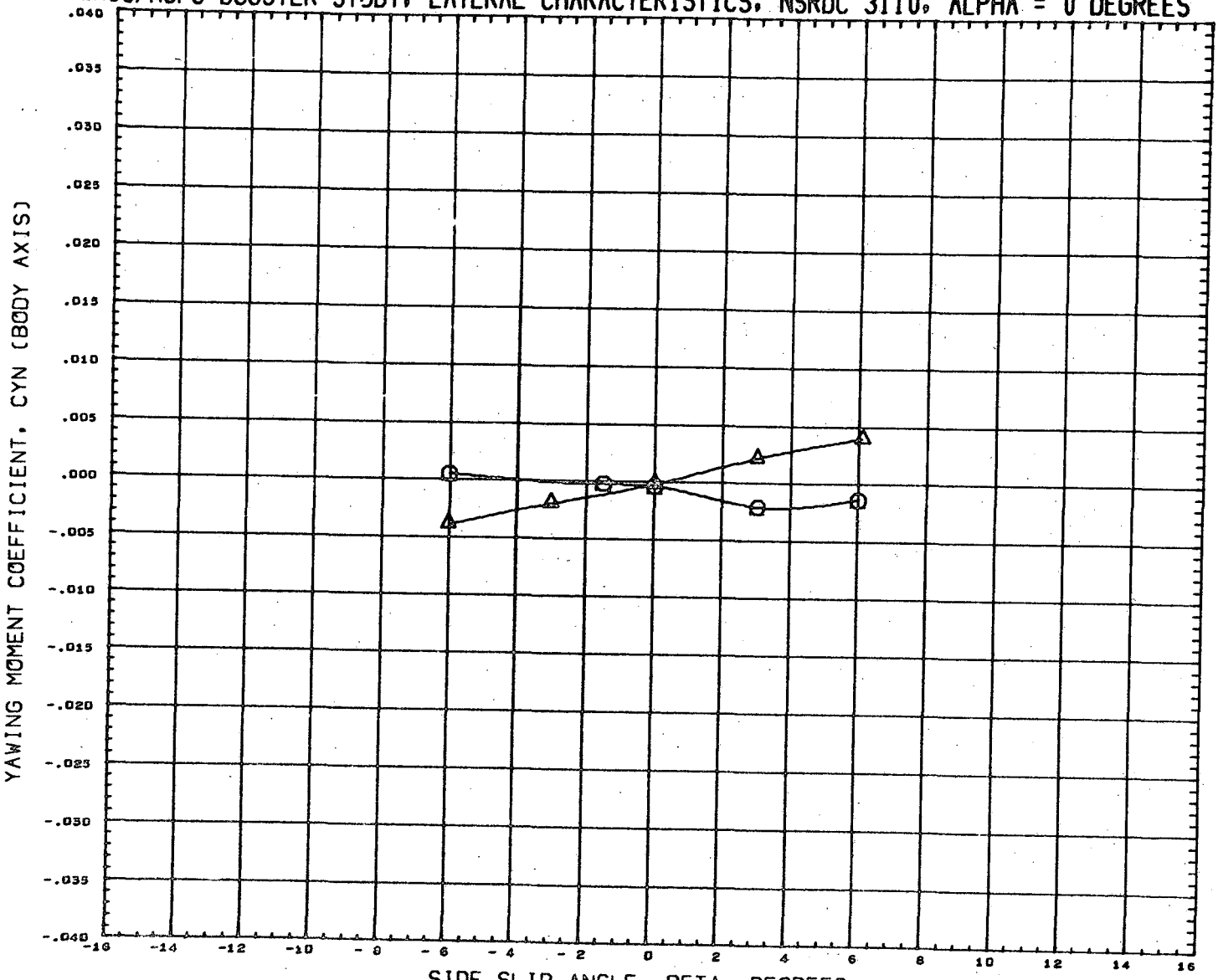
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2226)	O	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2242)	Δ	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



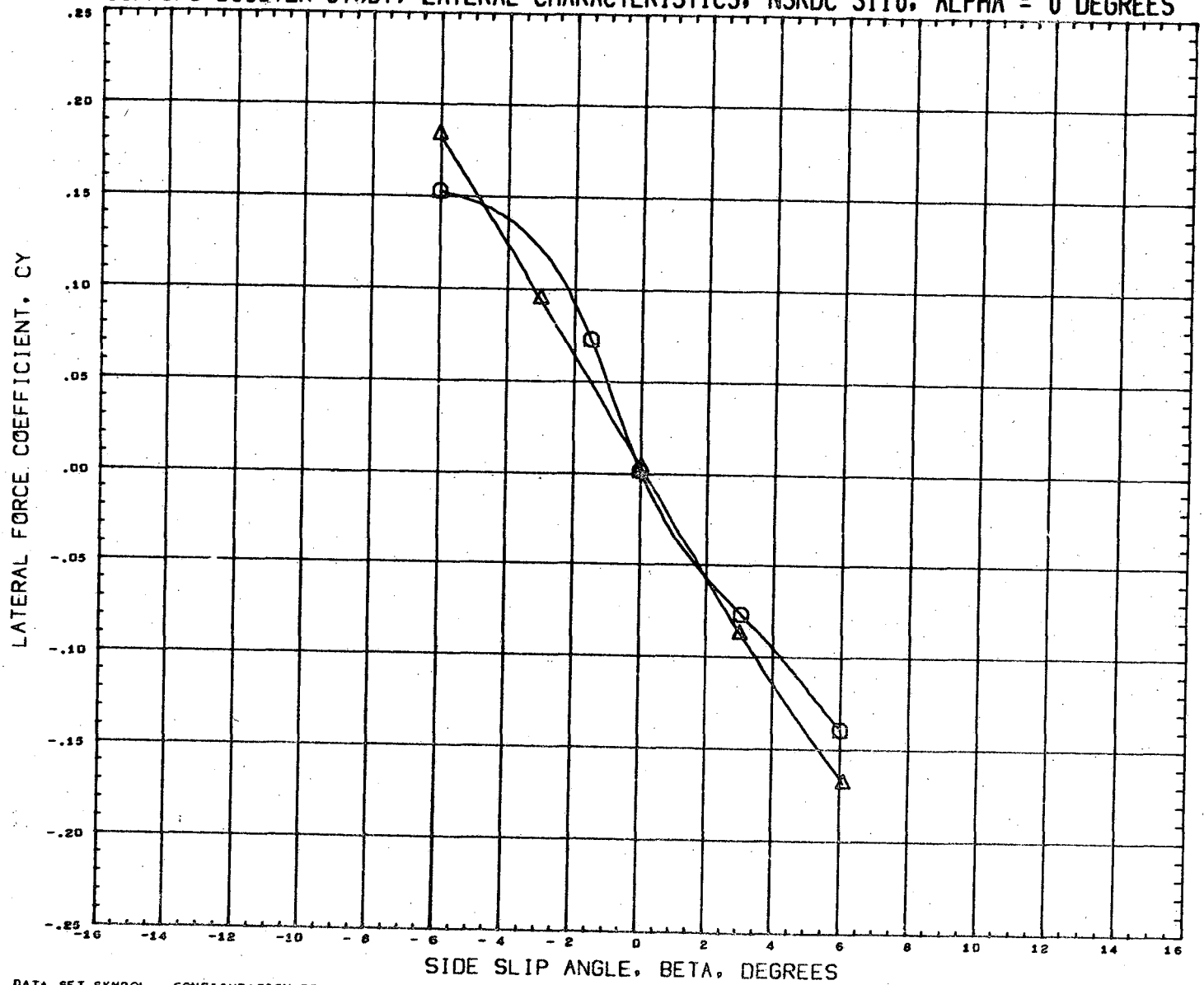
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2226) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000
(RN2242) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.379

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.9000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

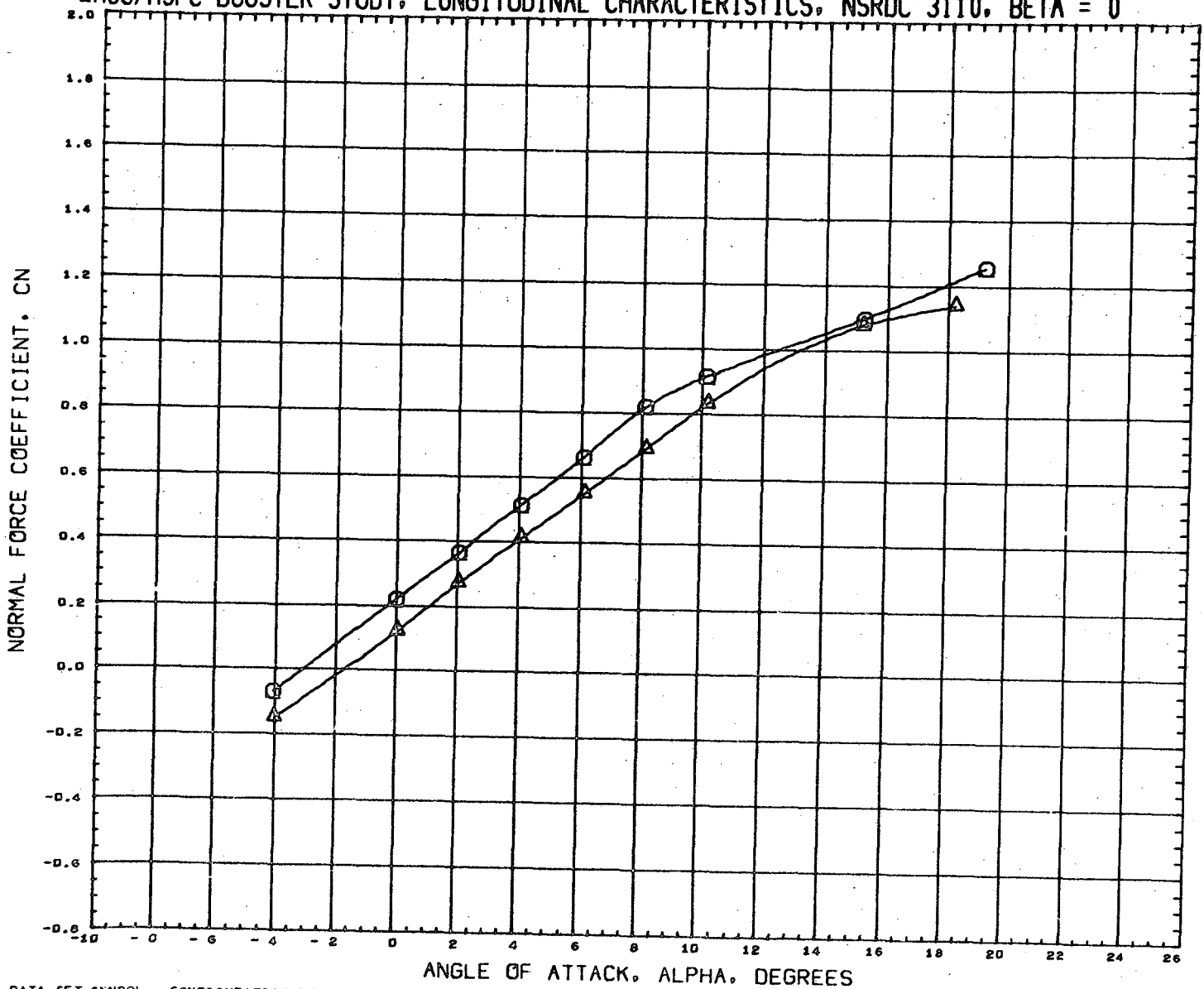


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2226)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000
(RN2242)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2233)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000
(RN2249)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

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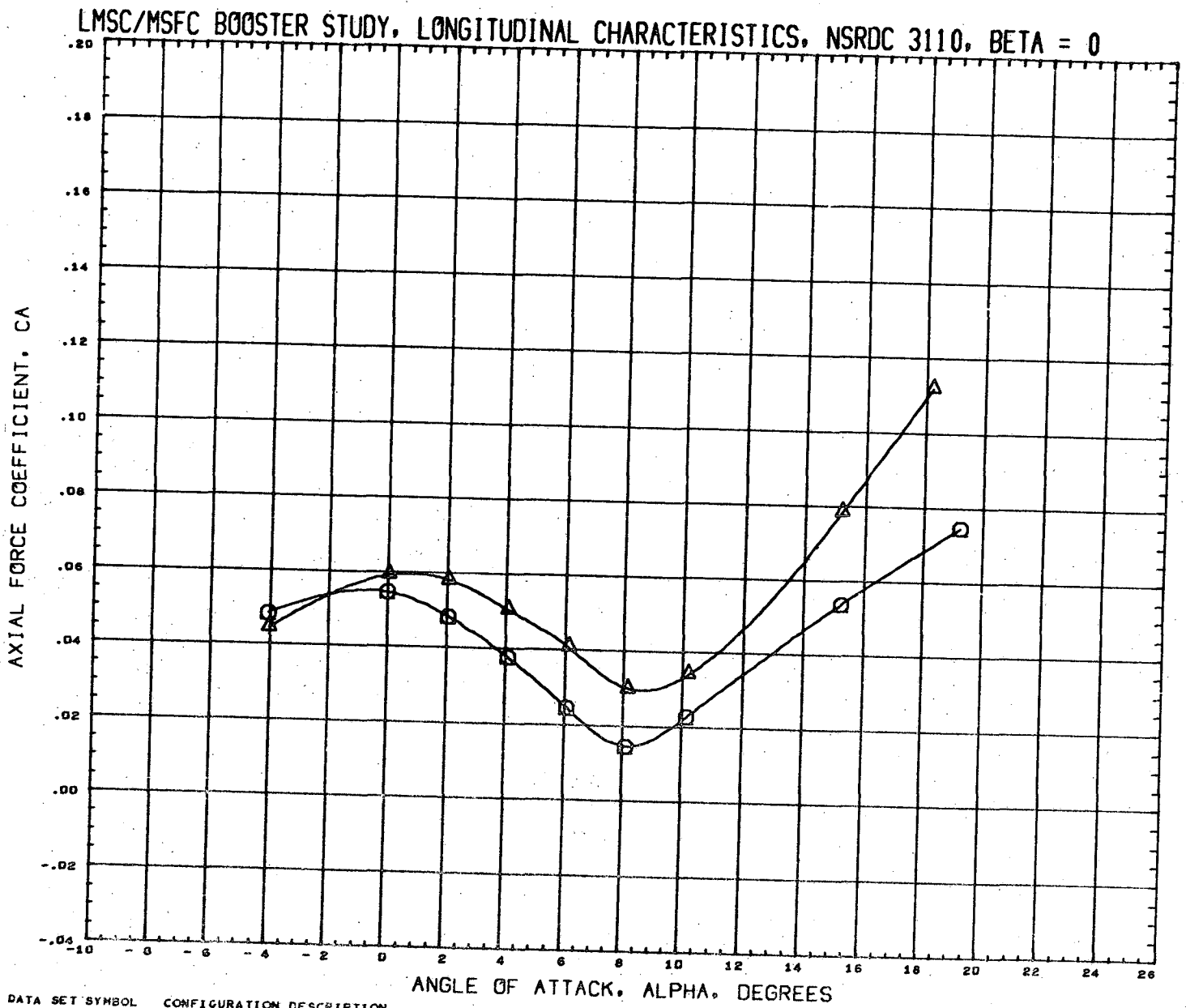


DATA SET SYMBOL — CONFIGURATION DESCRIPTION

(RN2233) ○ NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

(RN2249) △ NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1

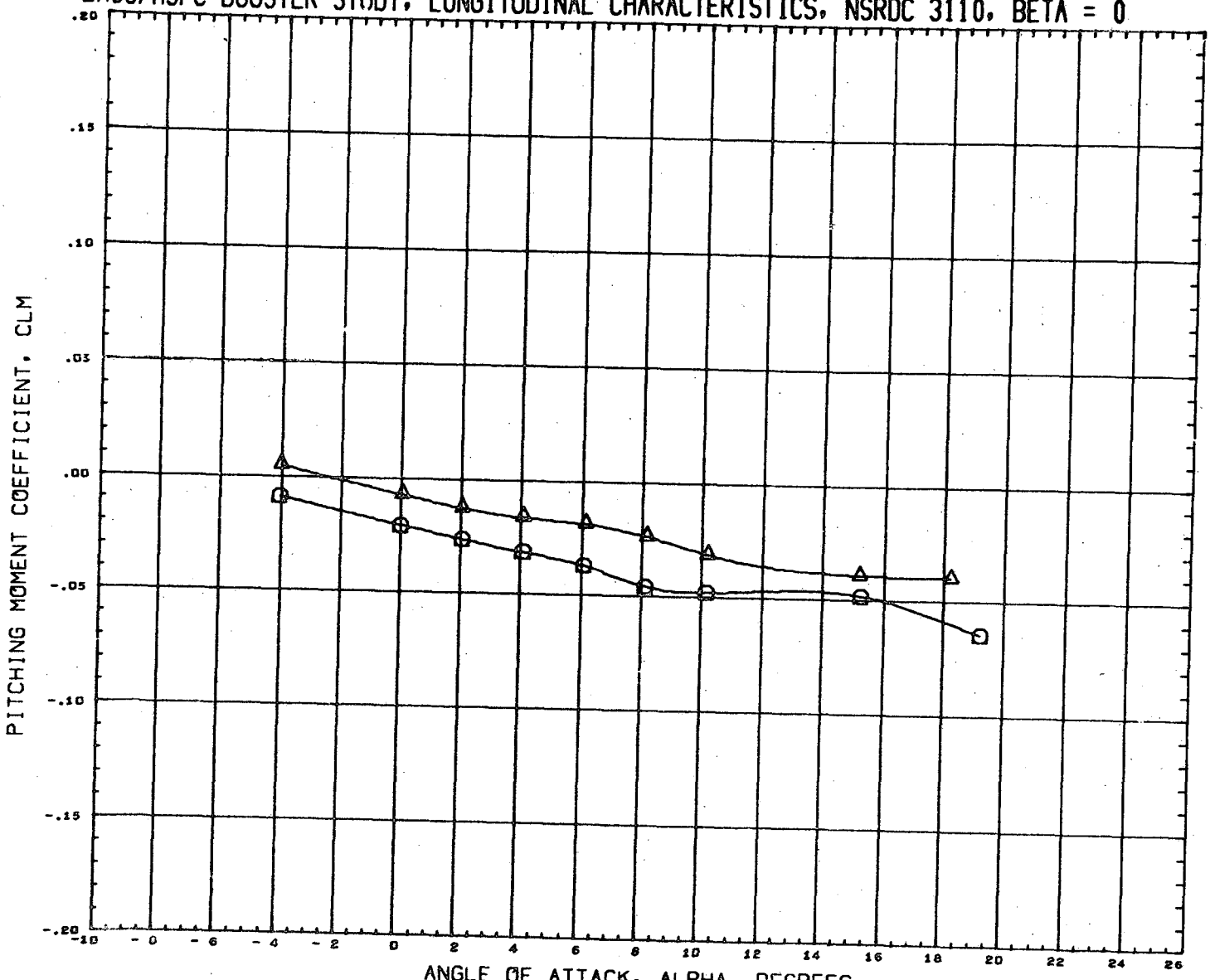
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2233)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2249)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1

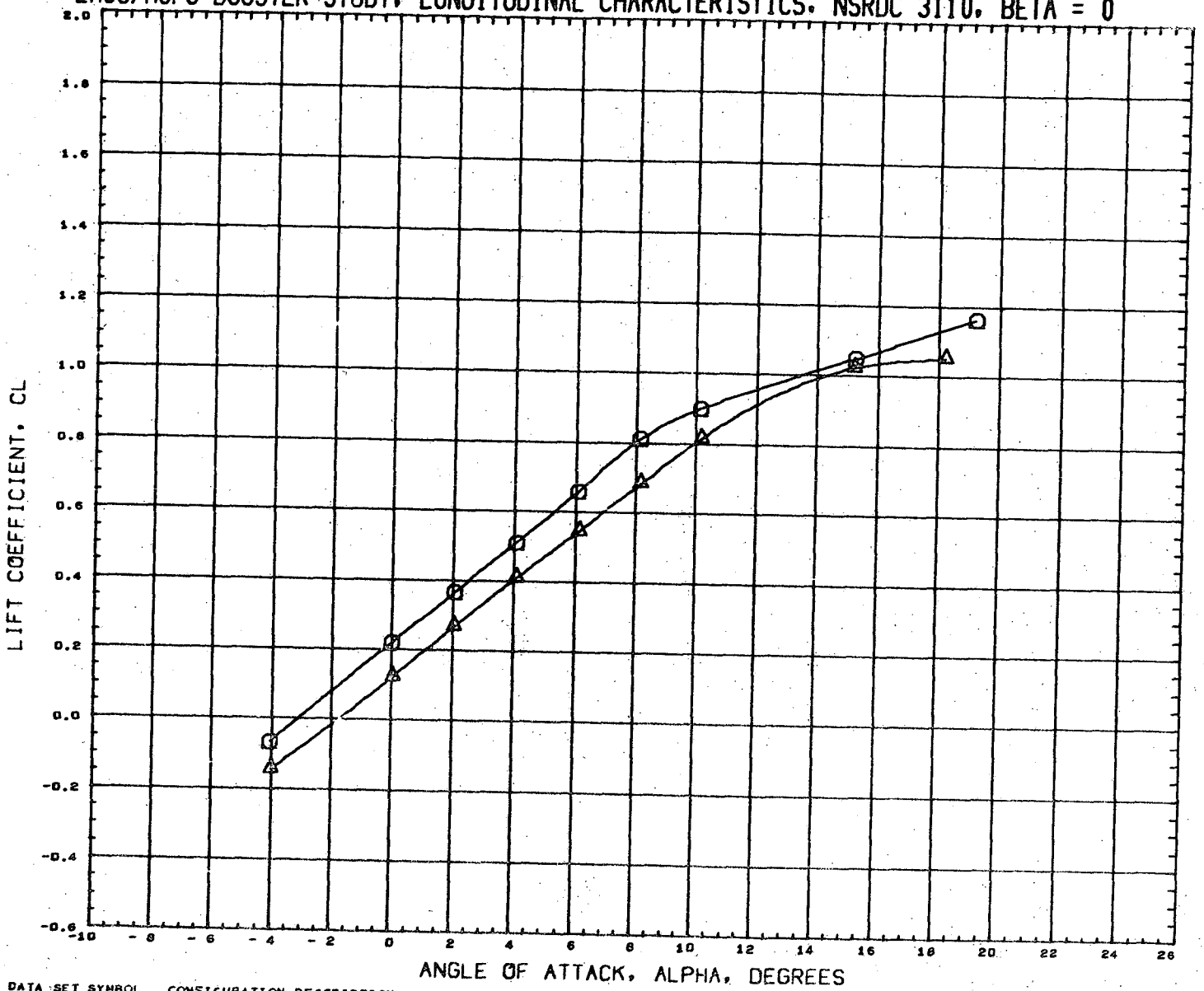
	INCIDC	CNDPOS	INCIDW	WNGPOS
○	3.000	2.000	3.000	1.000
△	3.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

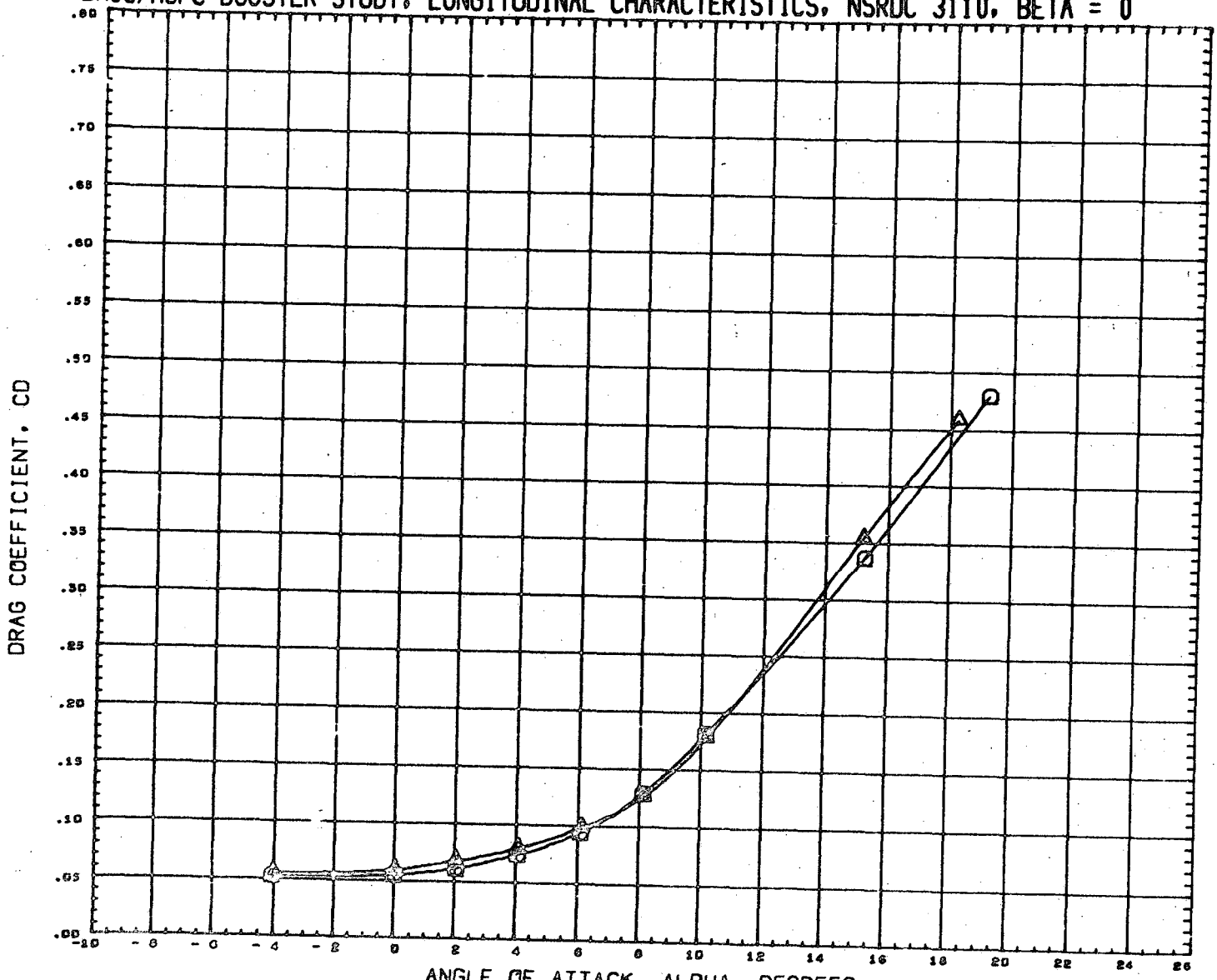


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2233)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000
(RN2249)		NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



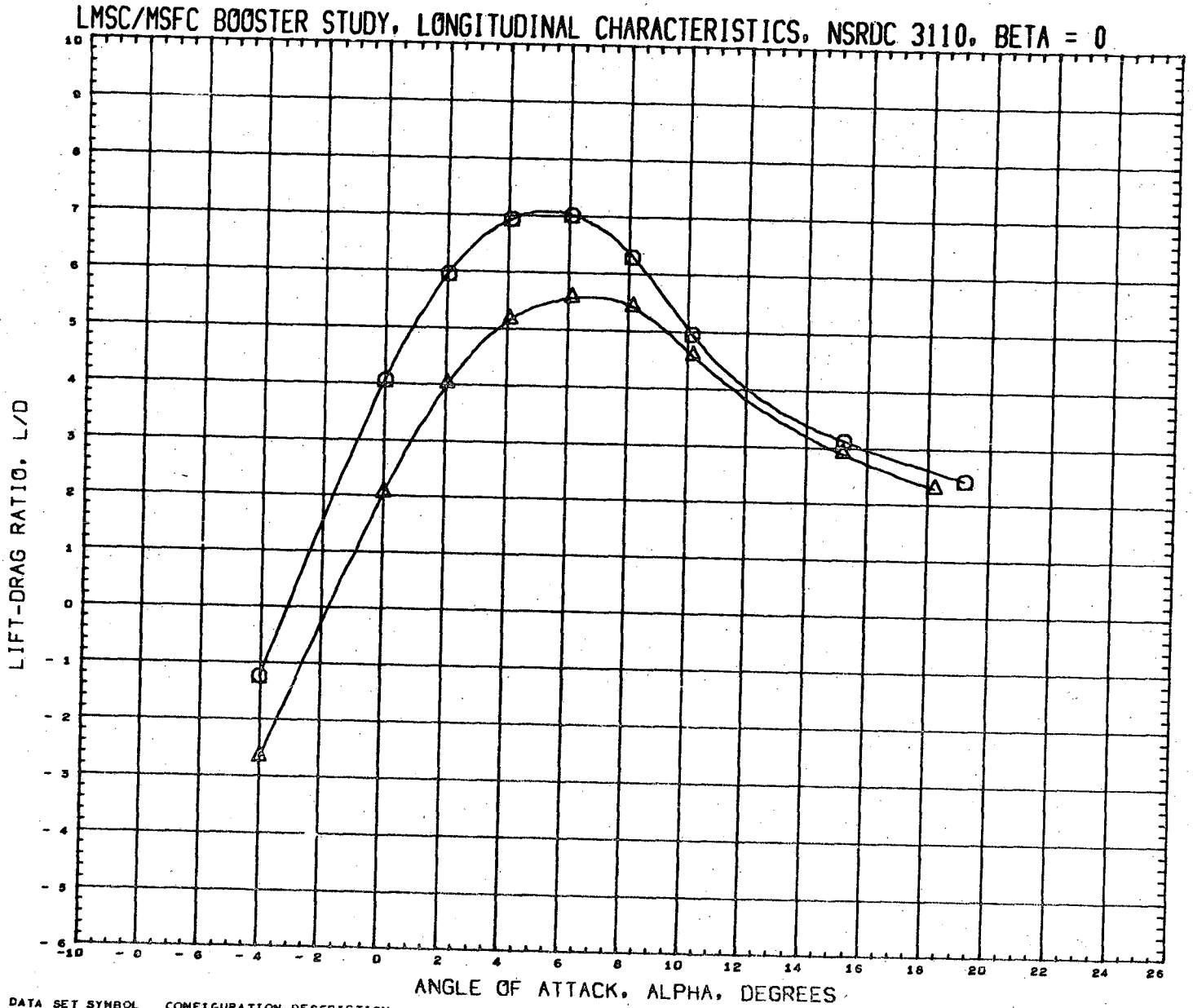
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2239)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2249)	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RN2233) NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

(RN2249) NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1

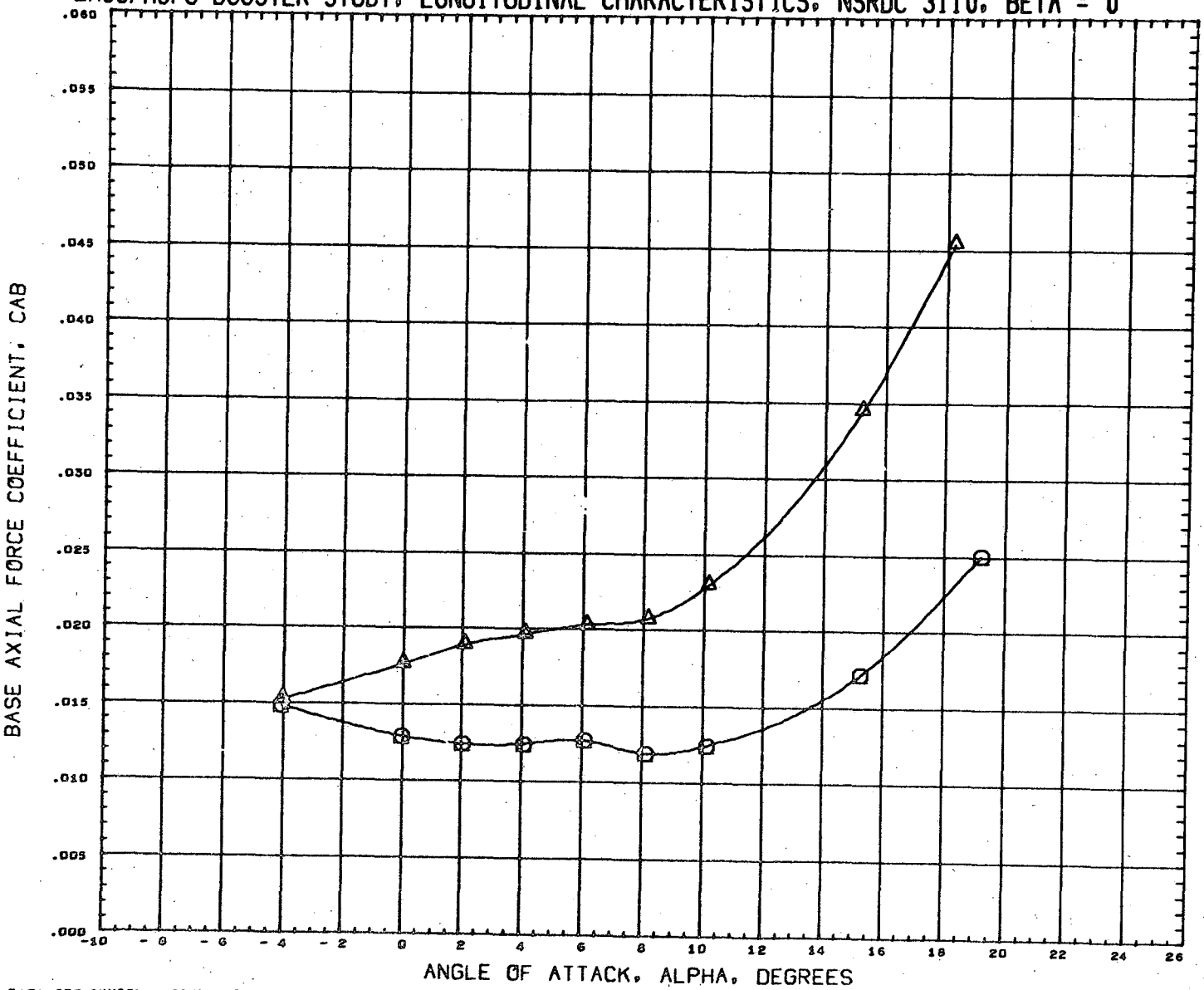
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

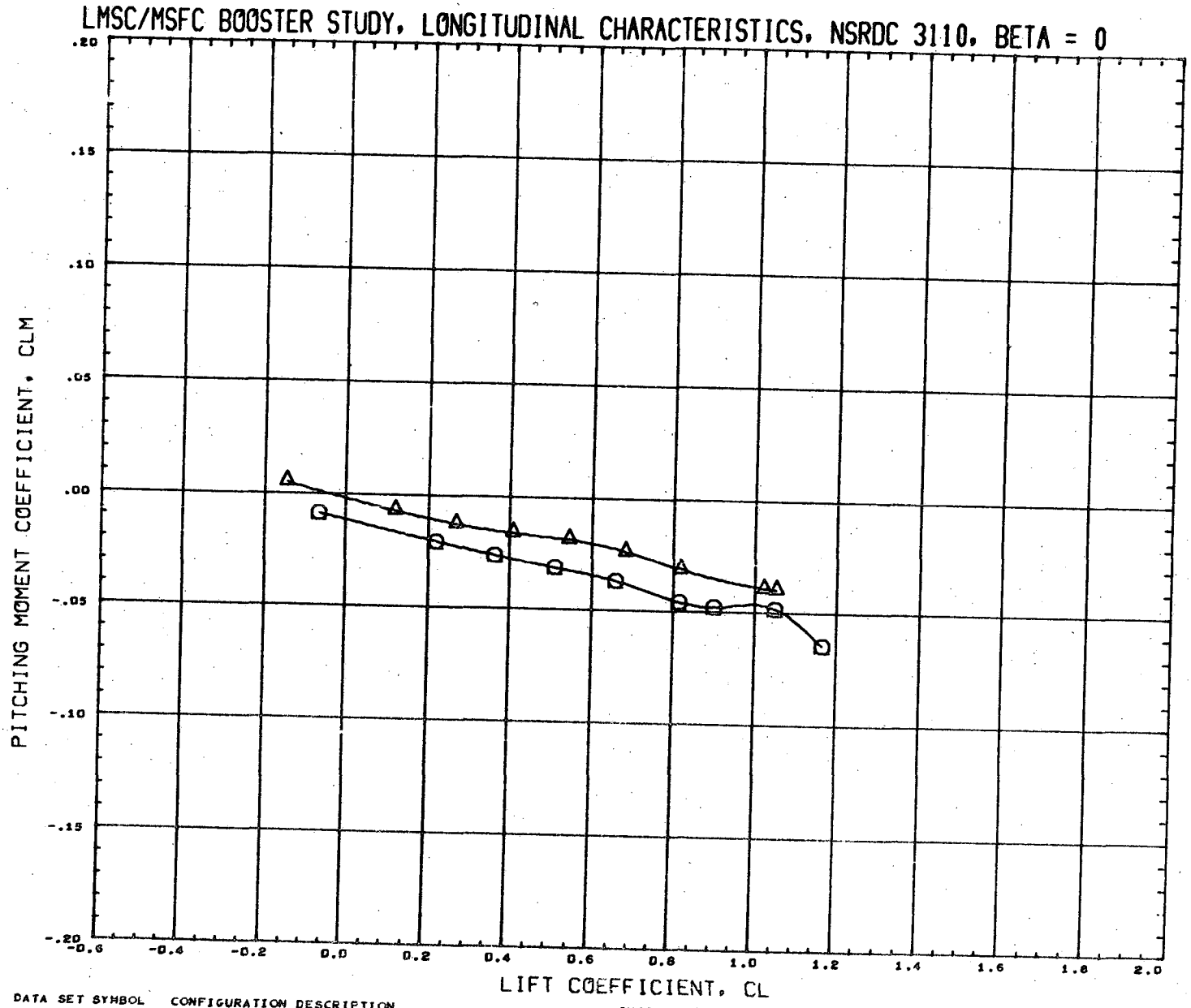
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2233)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000
(RN2249)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



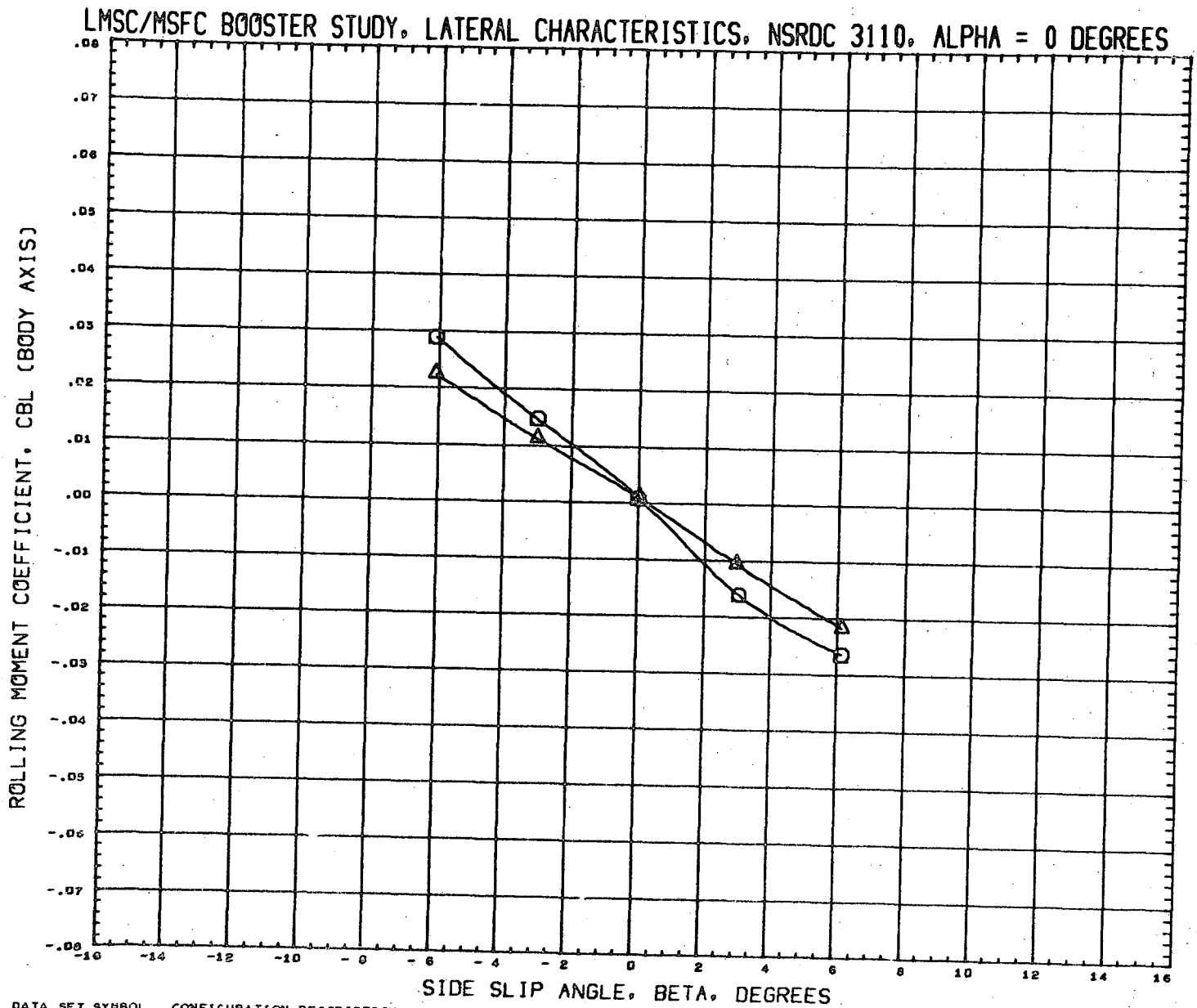
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2233)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2249)	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

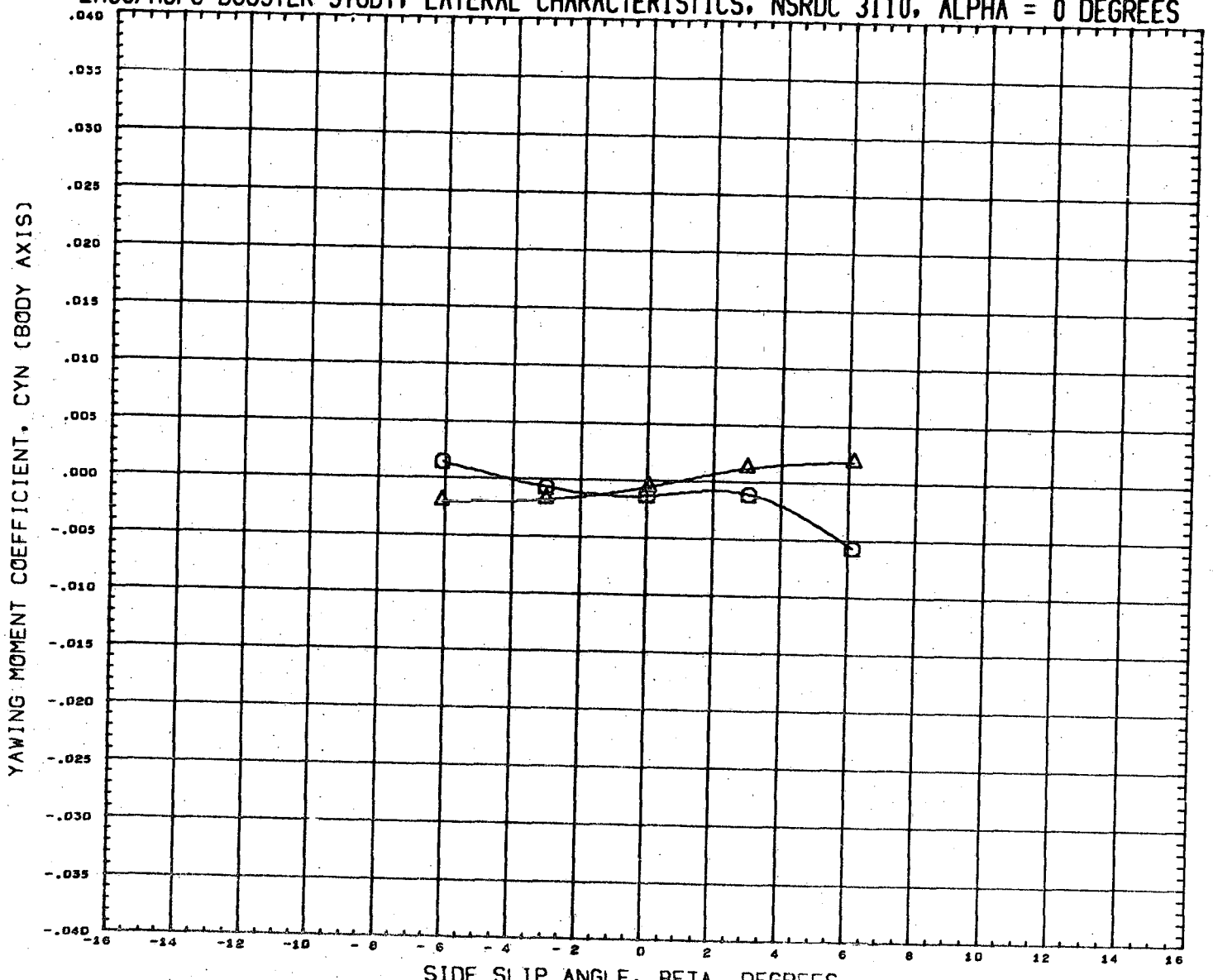


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2234)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000
(RN225G)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



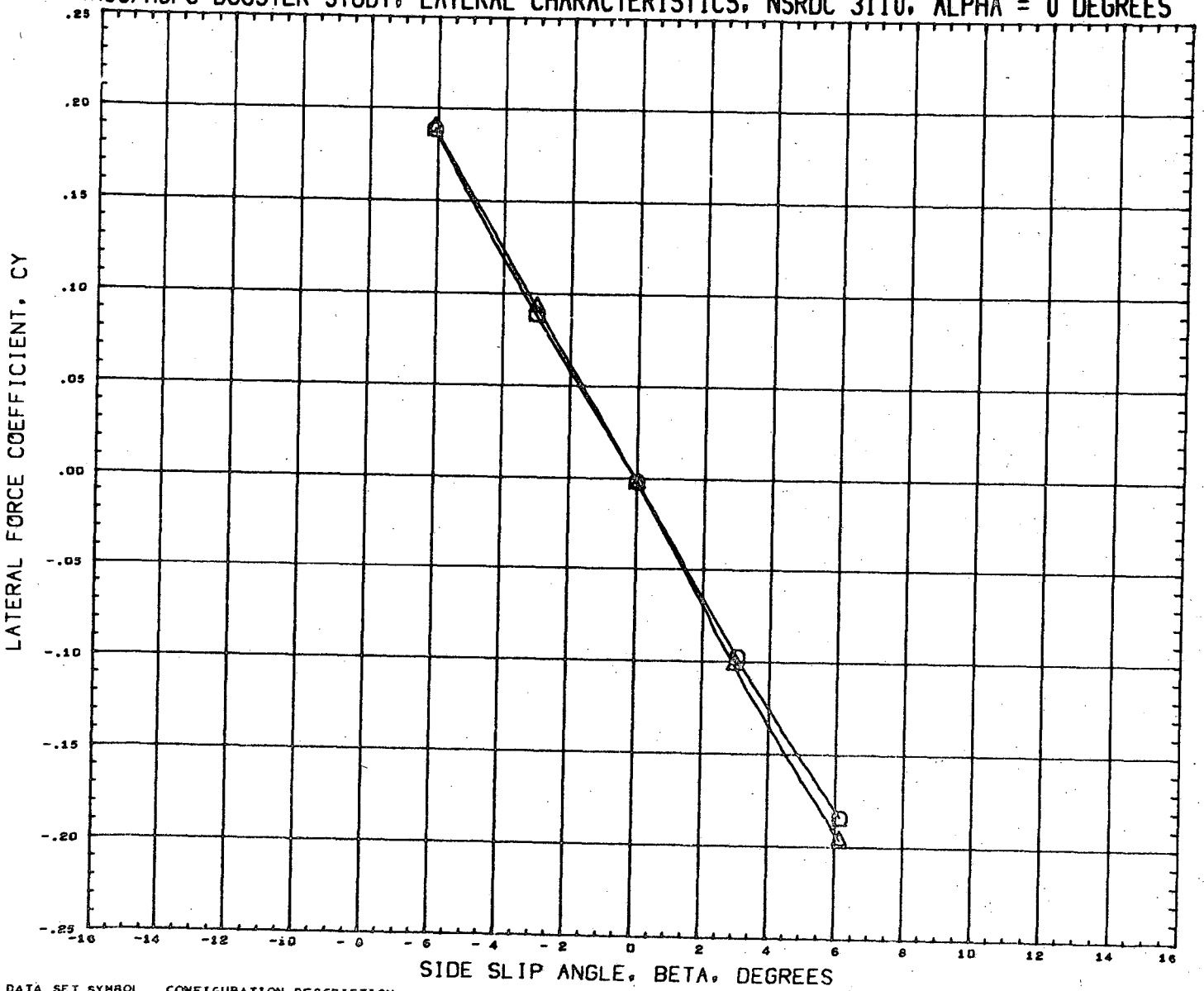
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2234)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2250)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

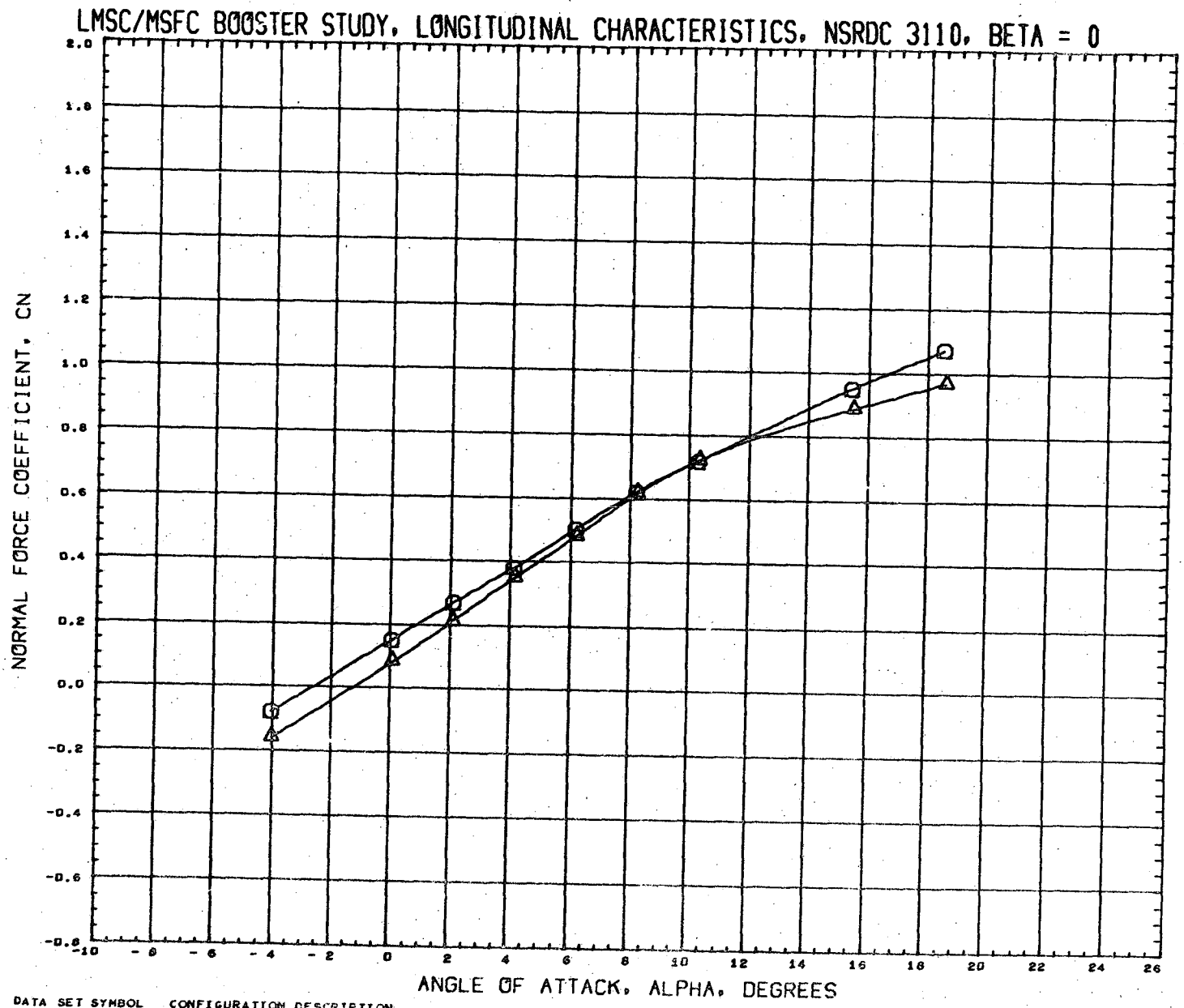


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2234)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000
(RN2250)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION

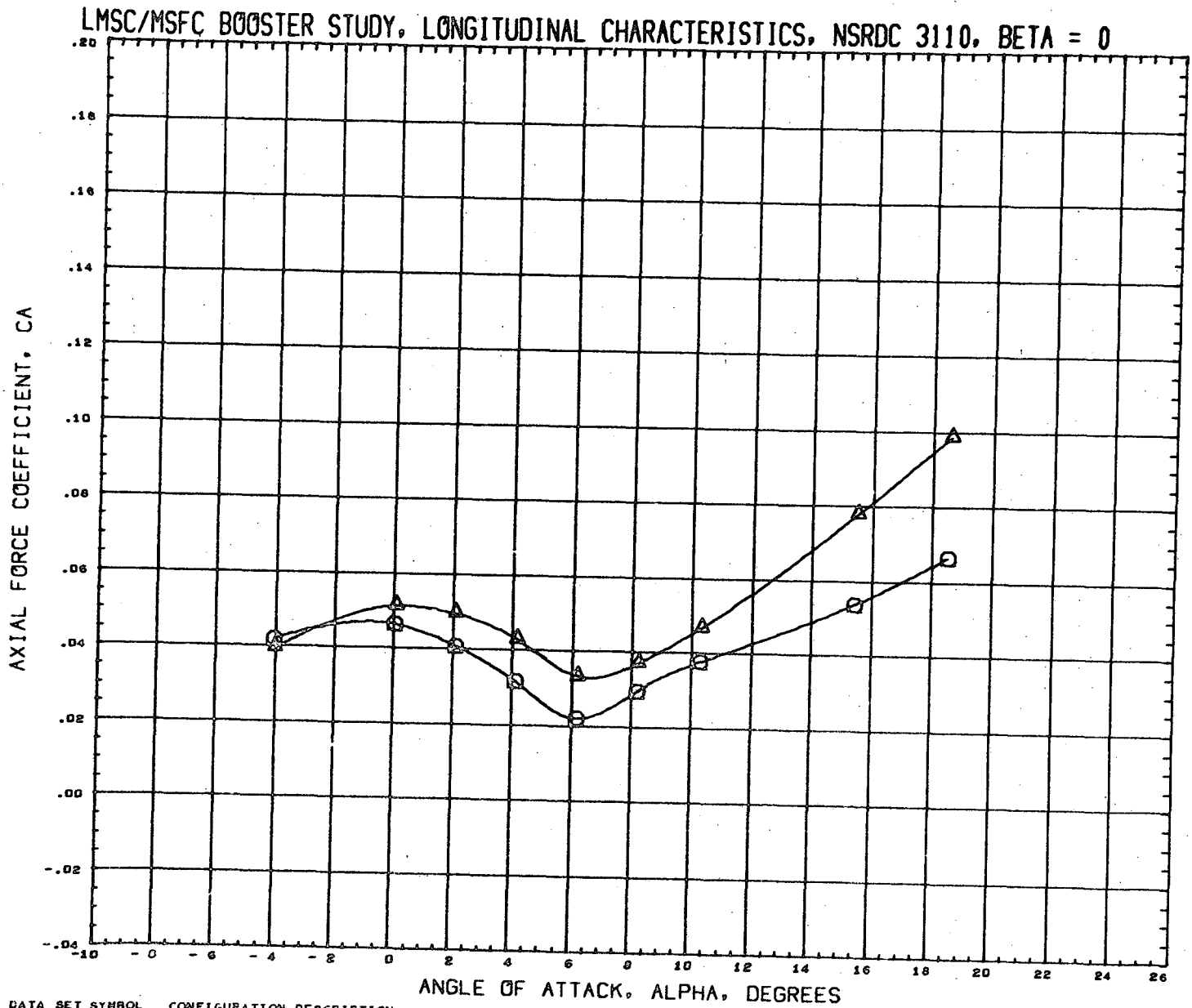
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2285)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000
(RN2301)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

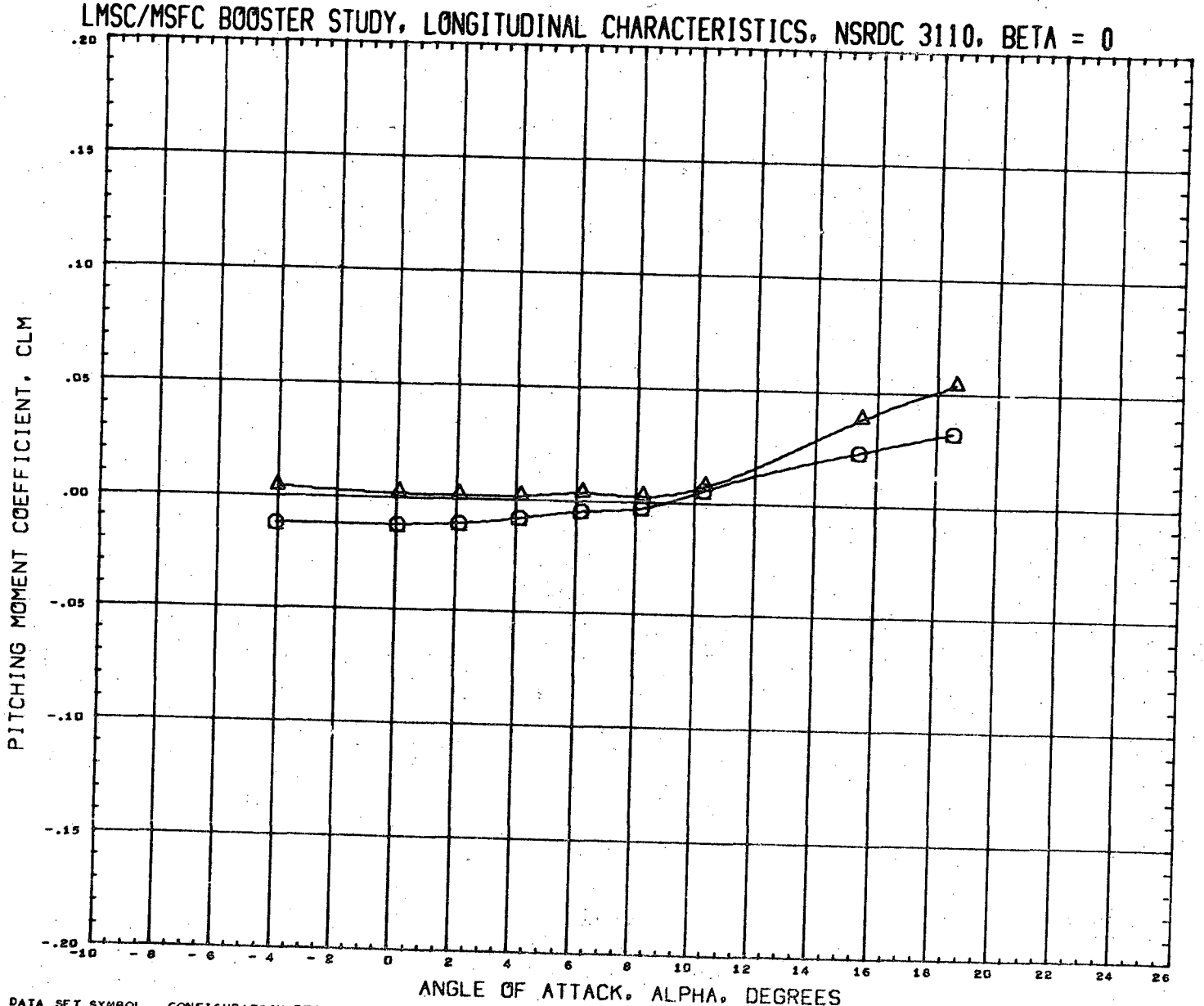


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2285)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000
(RN2301)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

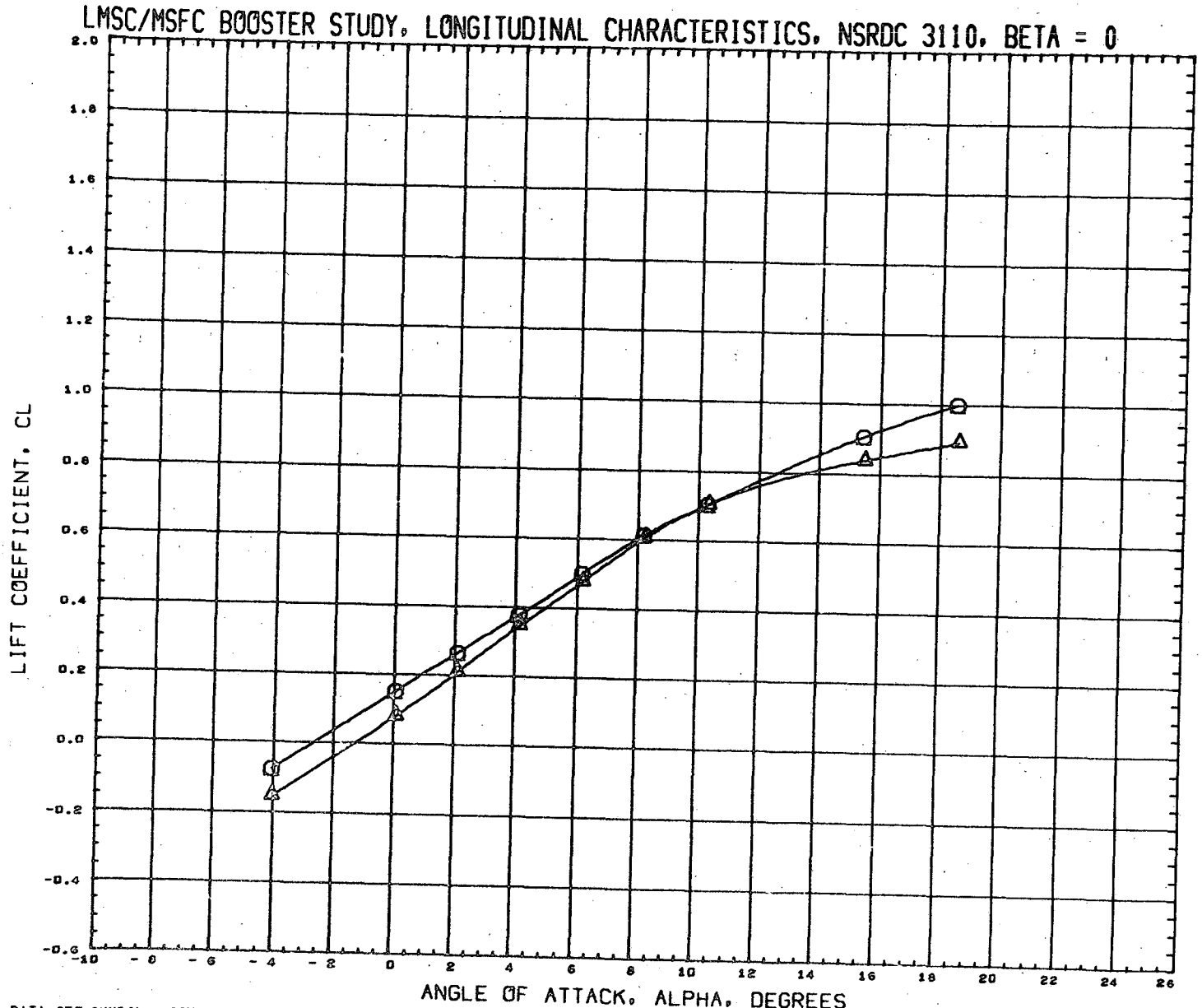


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2285)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2301)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

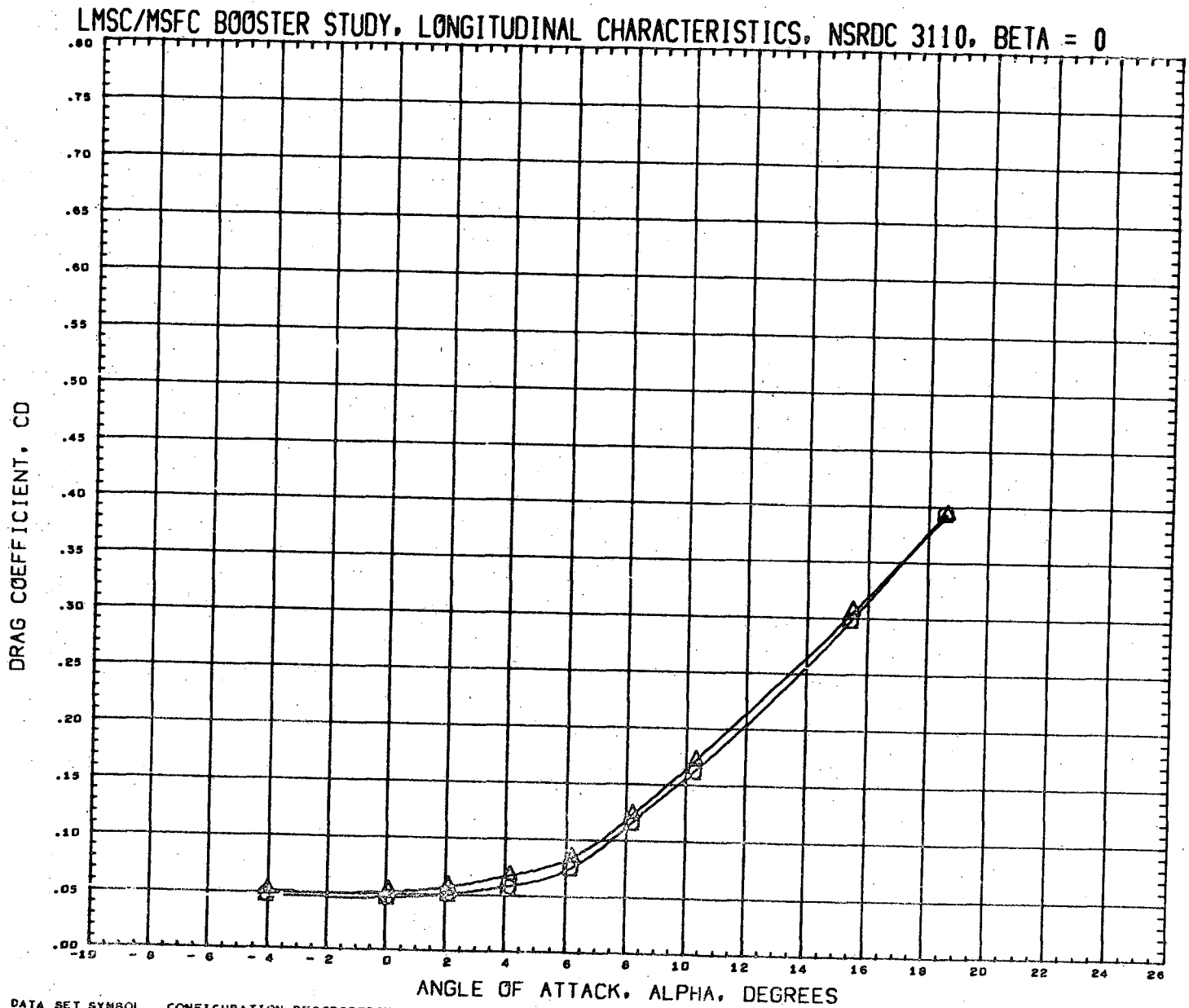


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2285)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000
(RN2301)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



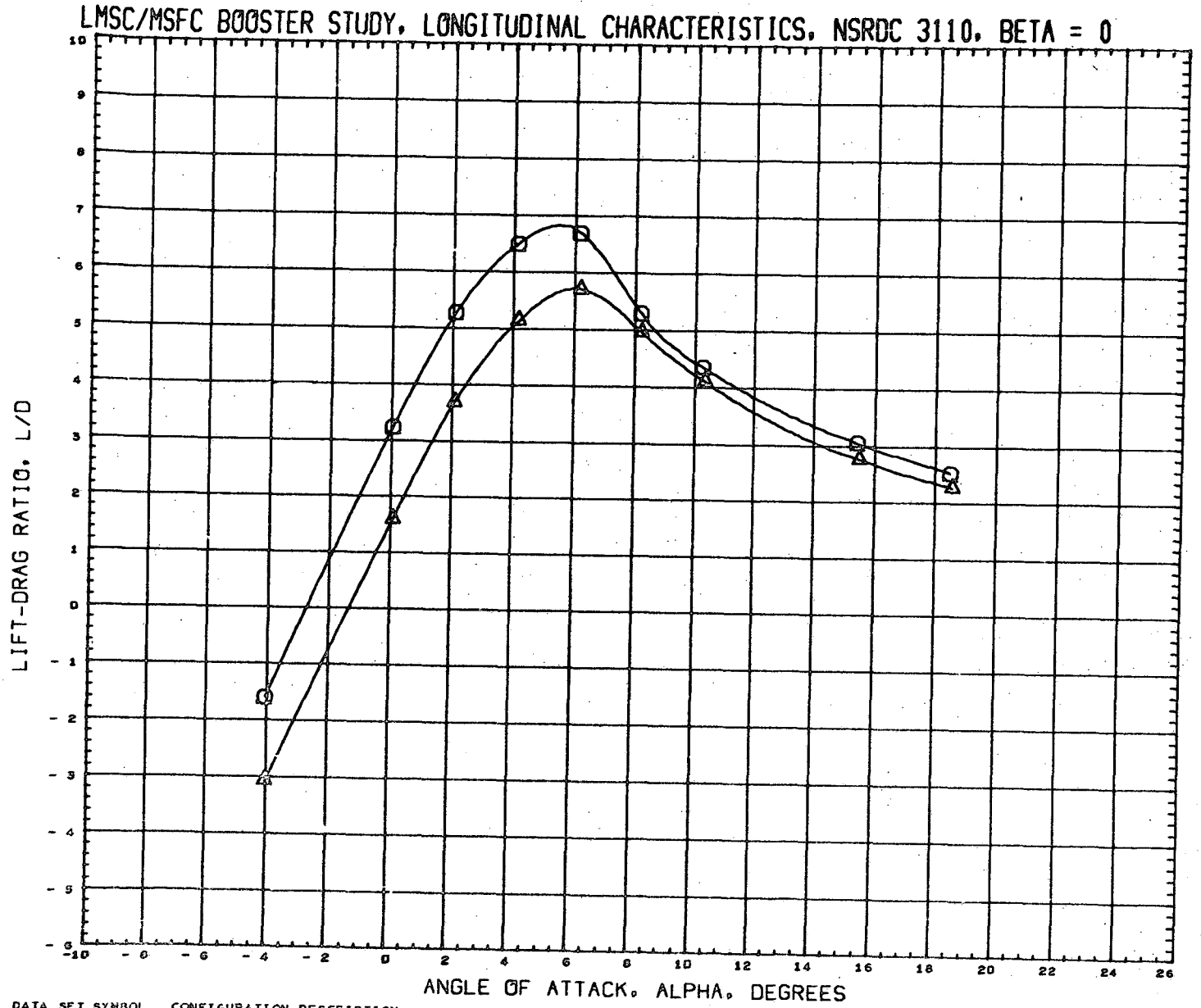
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2285)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2301)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.360

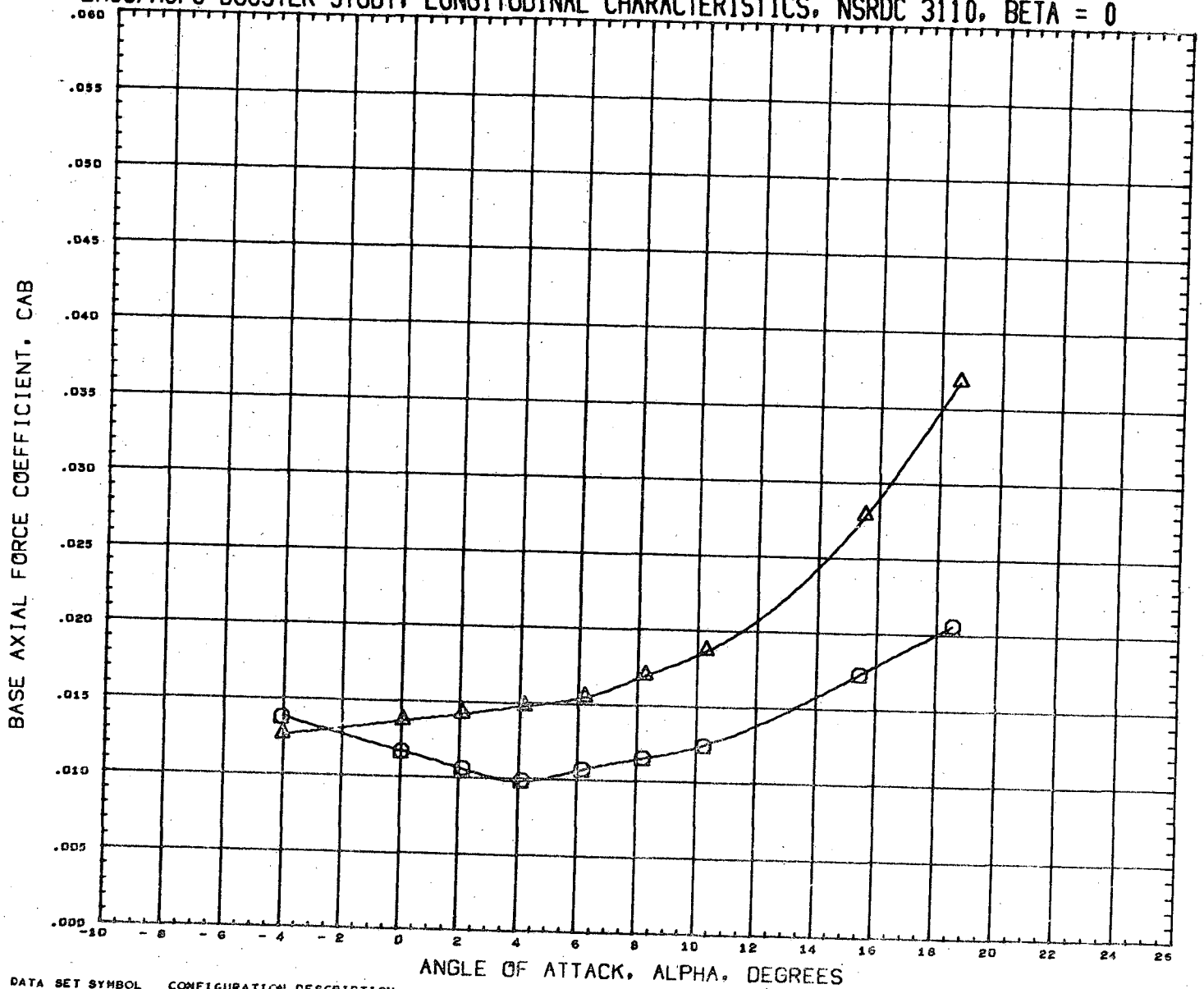


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2285)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000
(RN2301)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

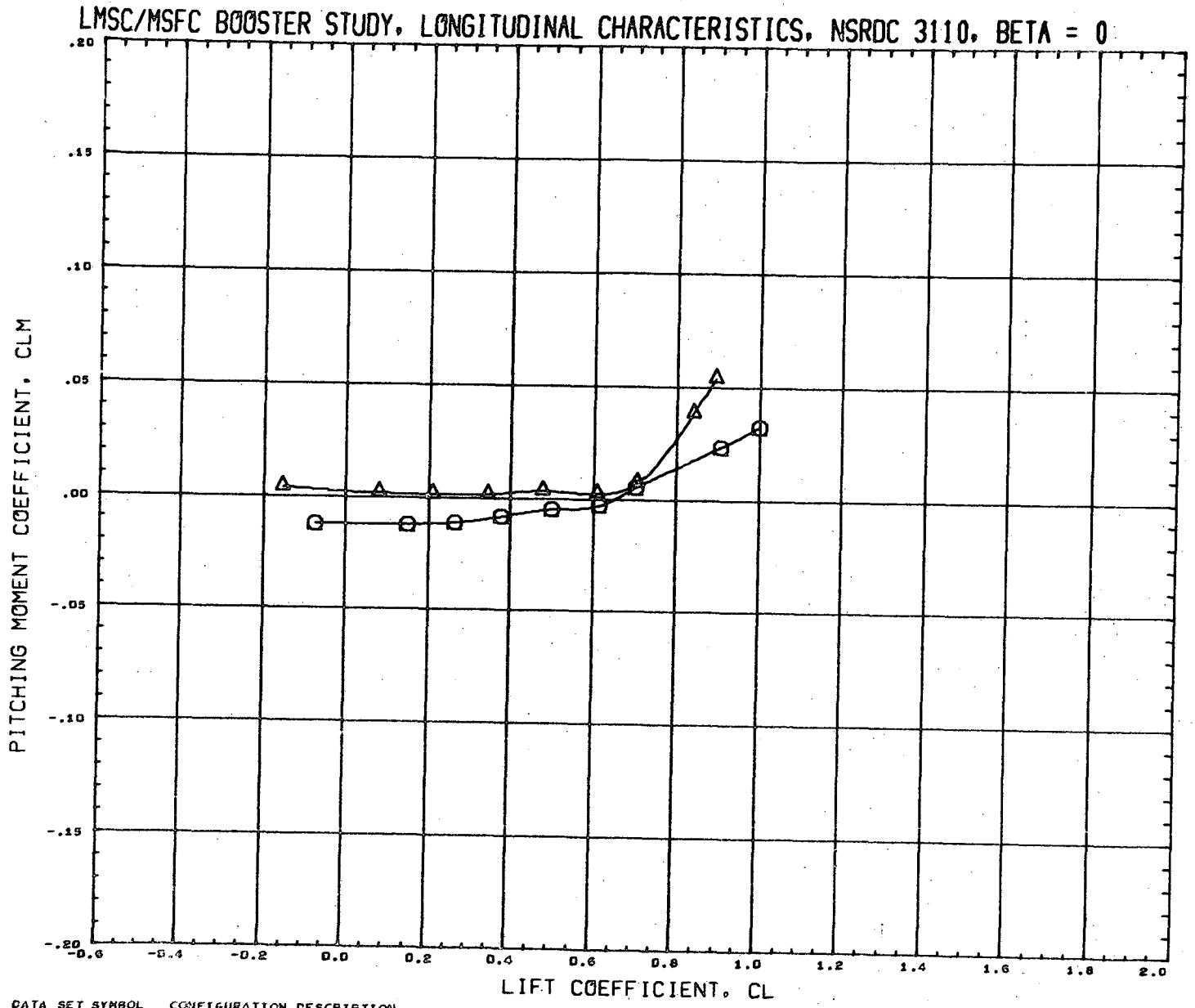


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2285)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D2
(RN2301)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380



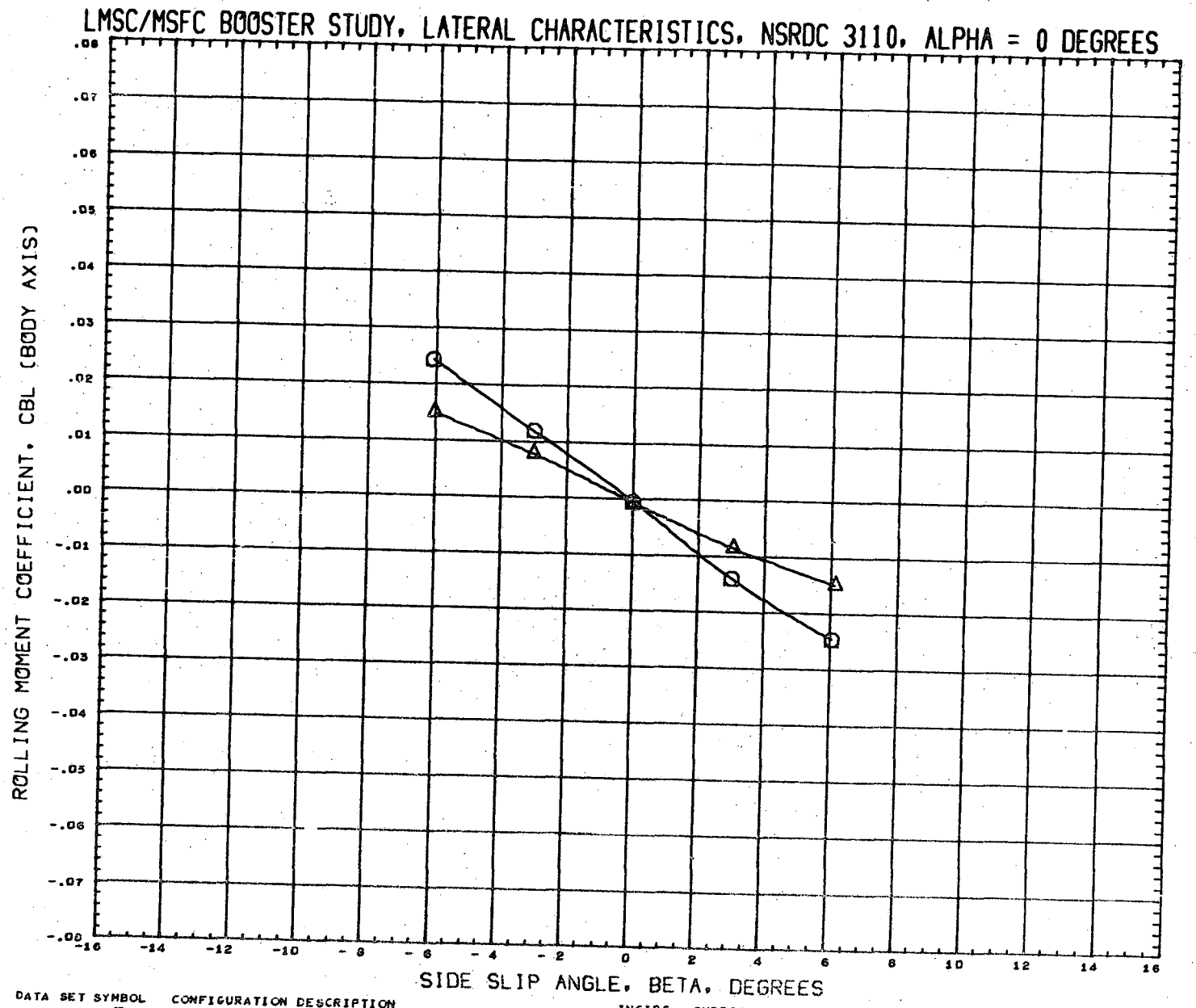
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2285)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2301)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



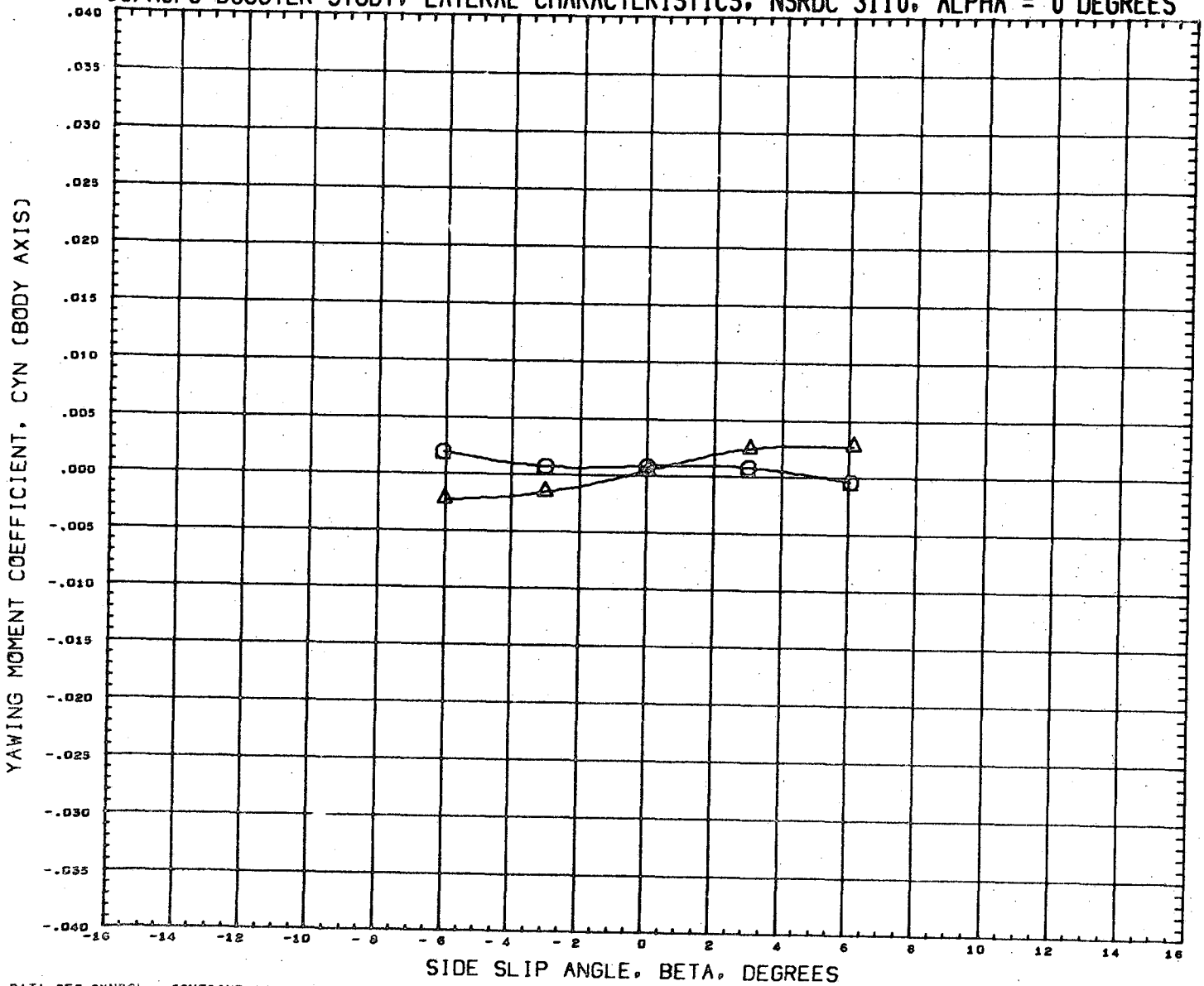
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2286)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2302)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

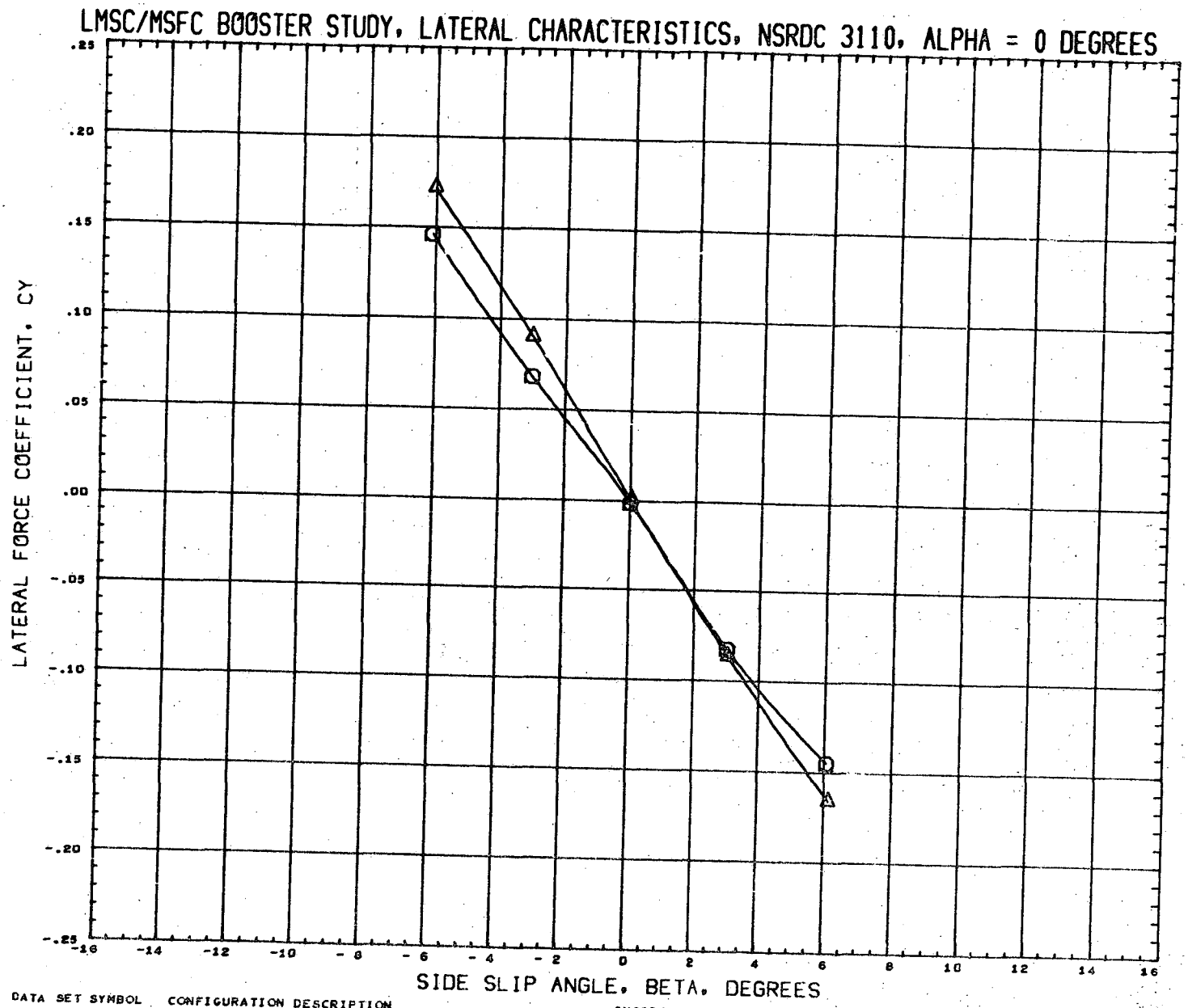
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2286)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000
(RN2302)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000

MACH 0.379

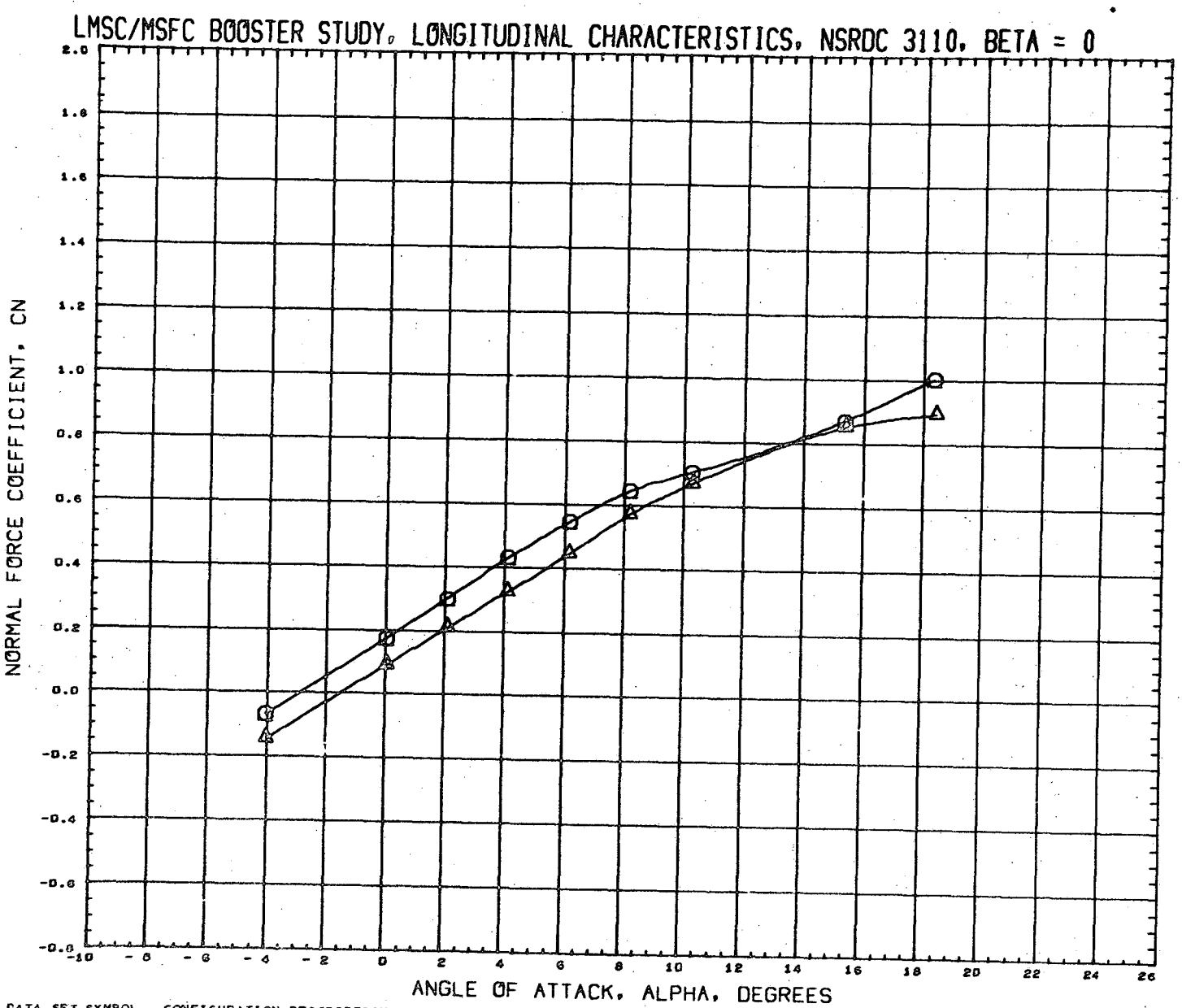
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2286)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000
(RN2302)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2293)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2309)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

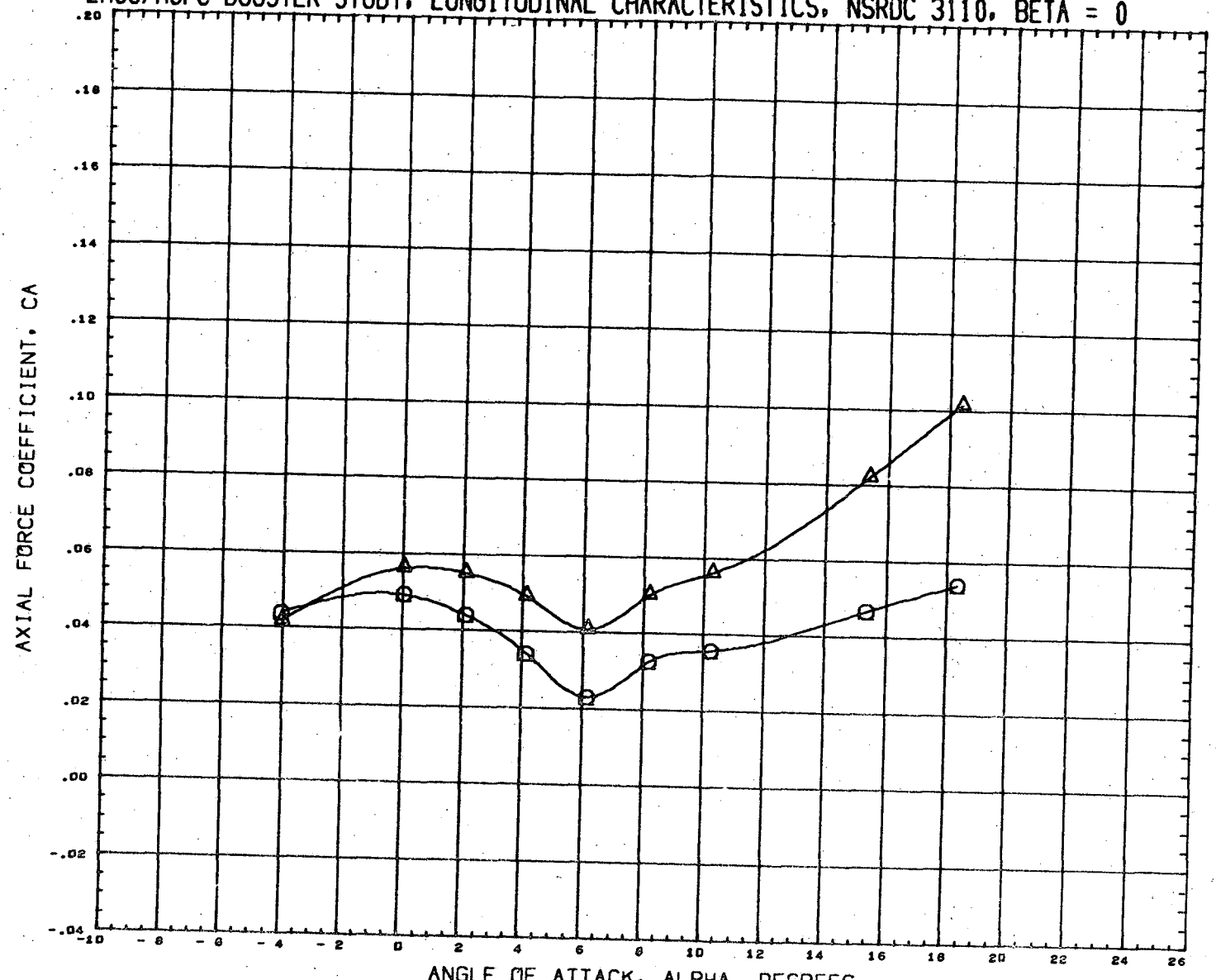
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2293)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2309)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

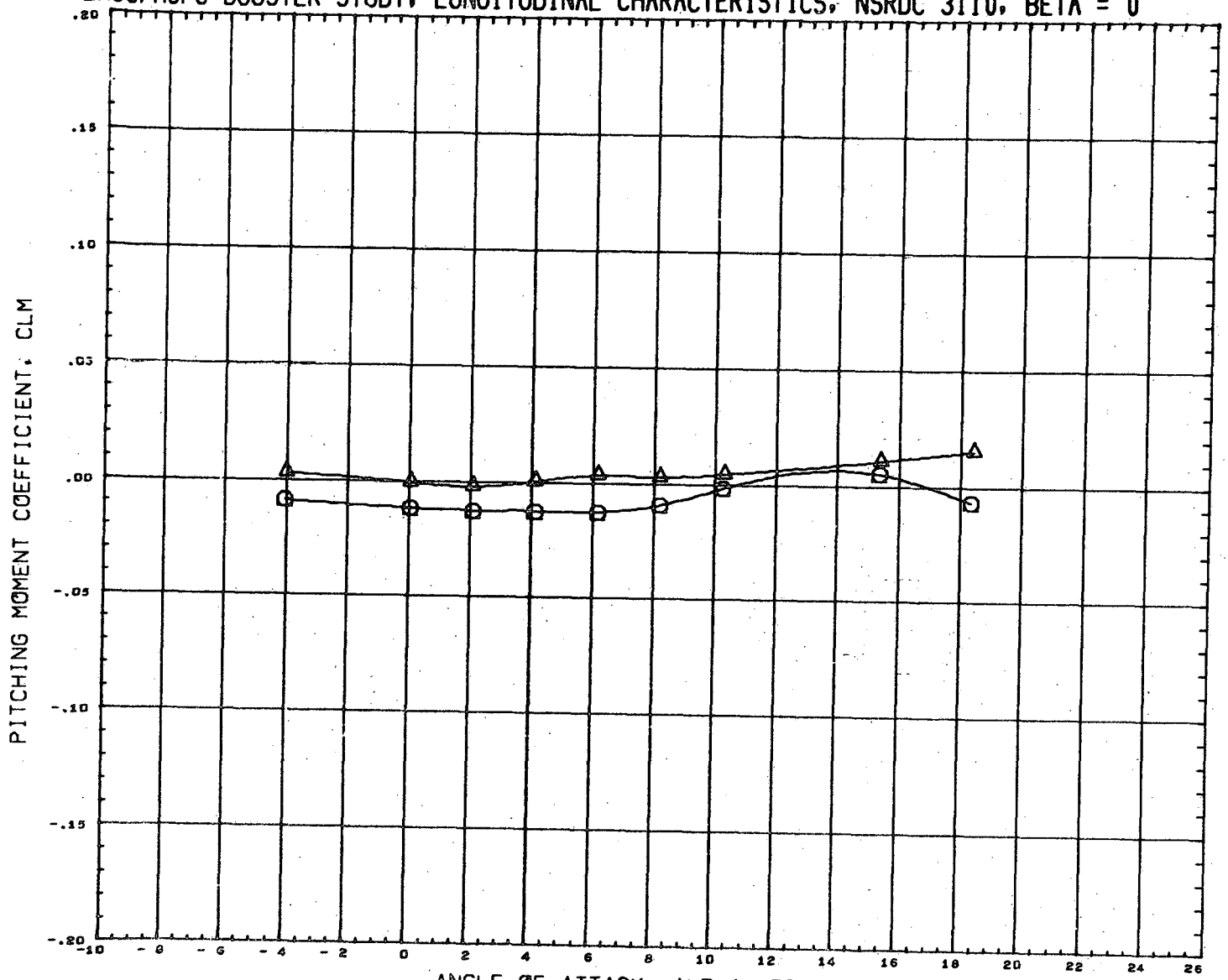
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

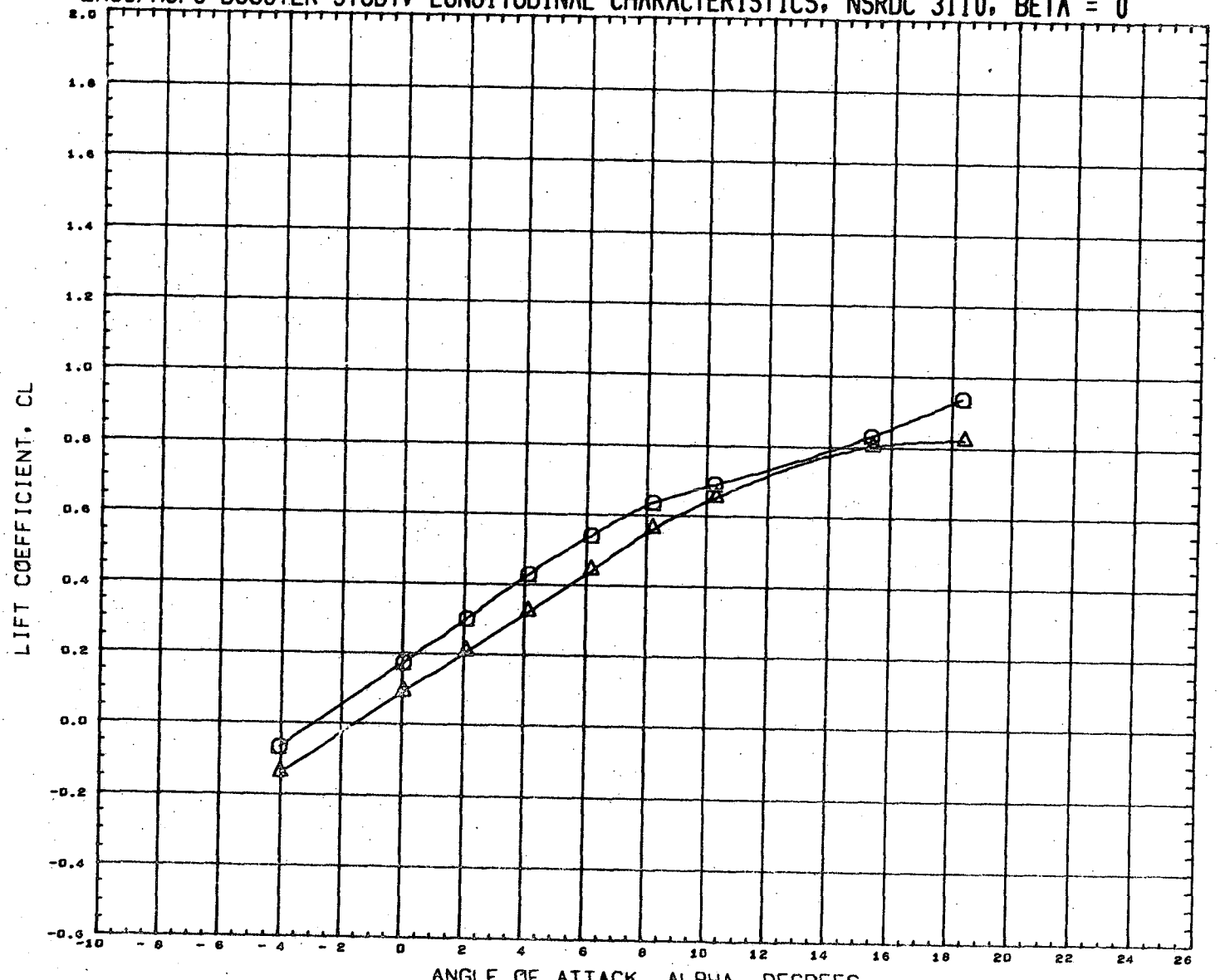


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2293)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000
(RN2309)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

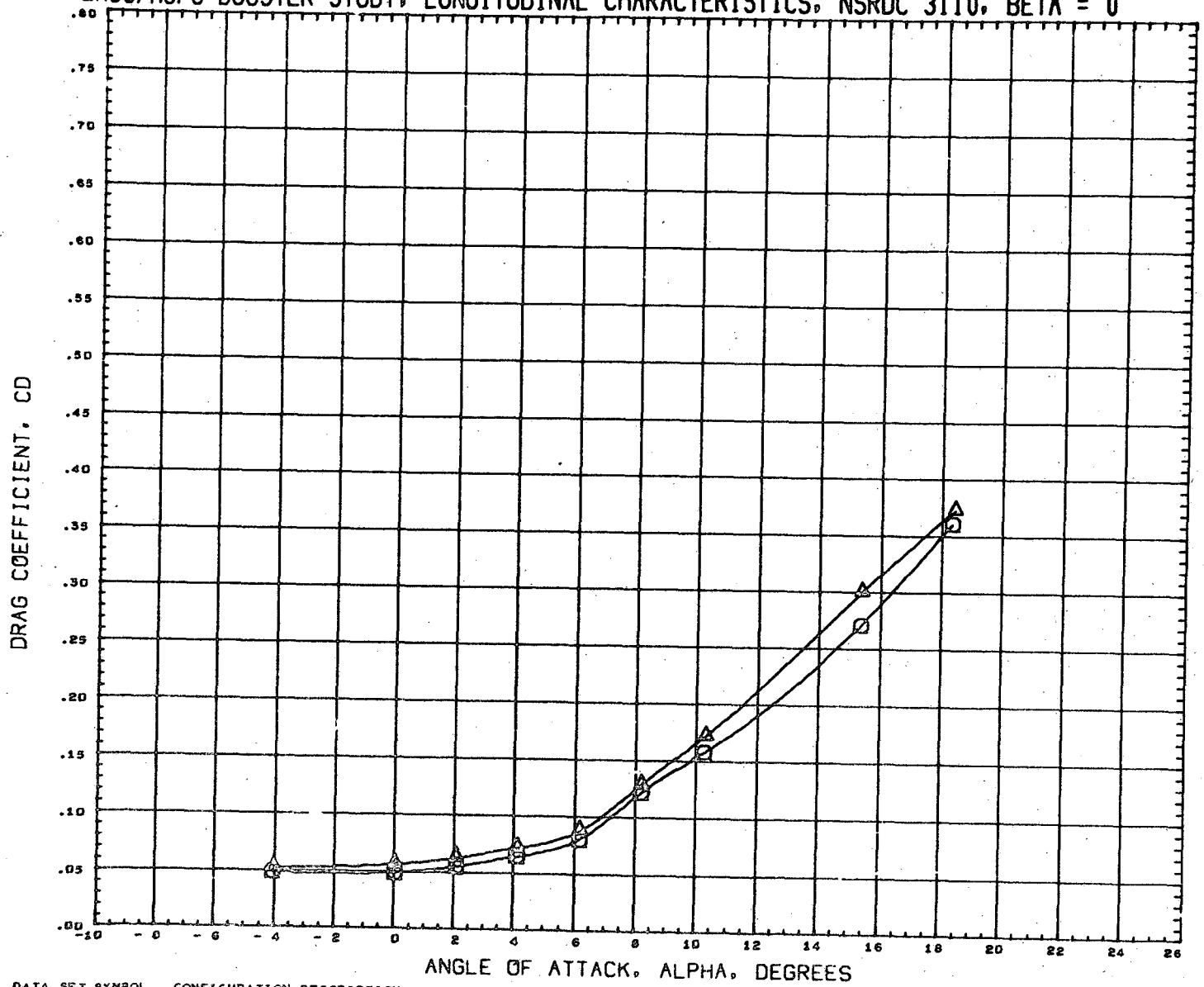


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2293)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000
(RN2309)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

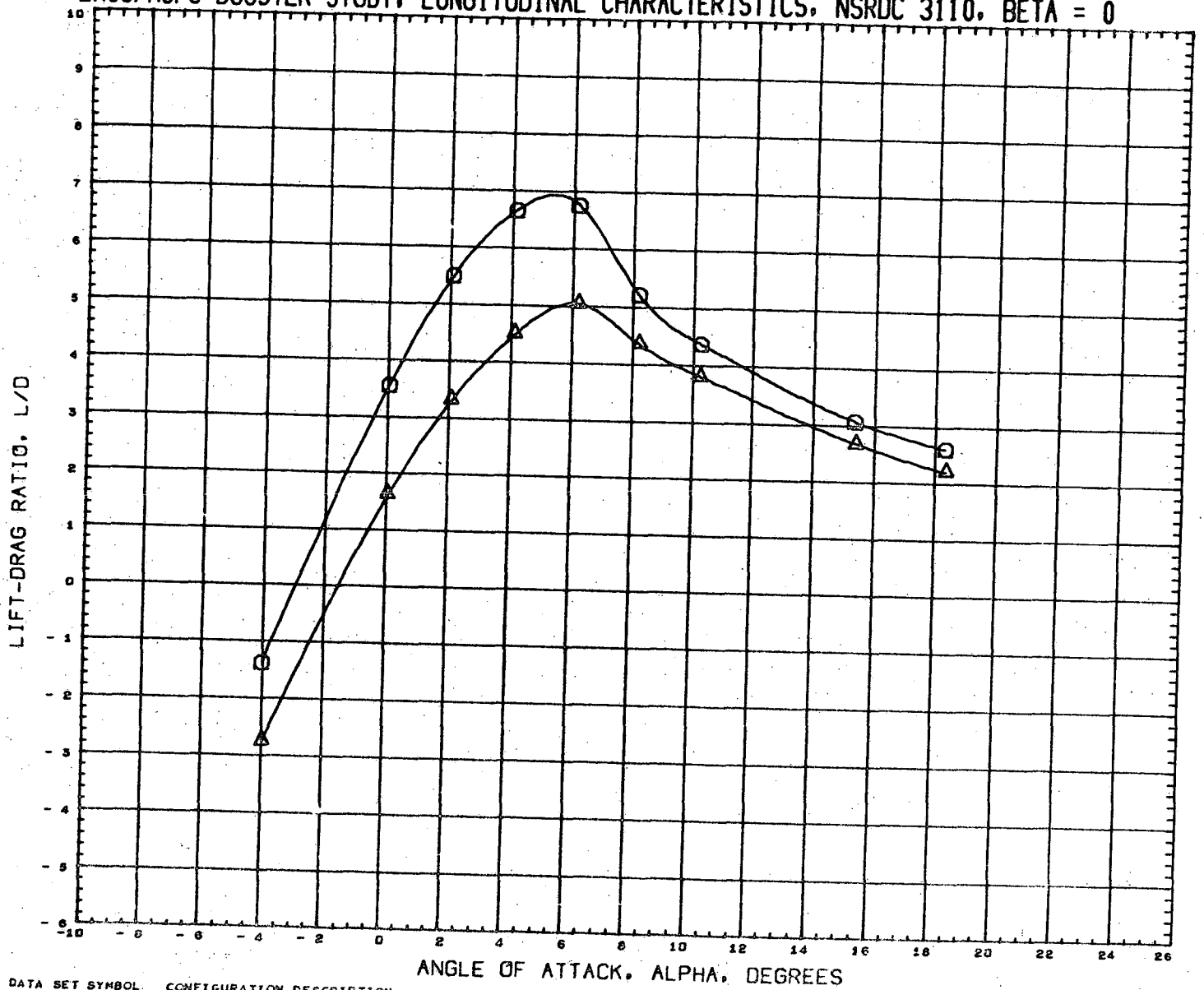


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2293)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000
(RN2309)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2293)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2309)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

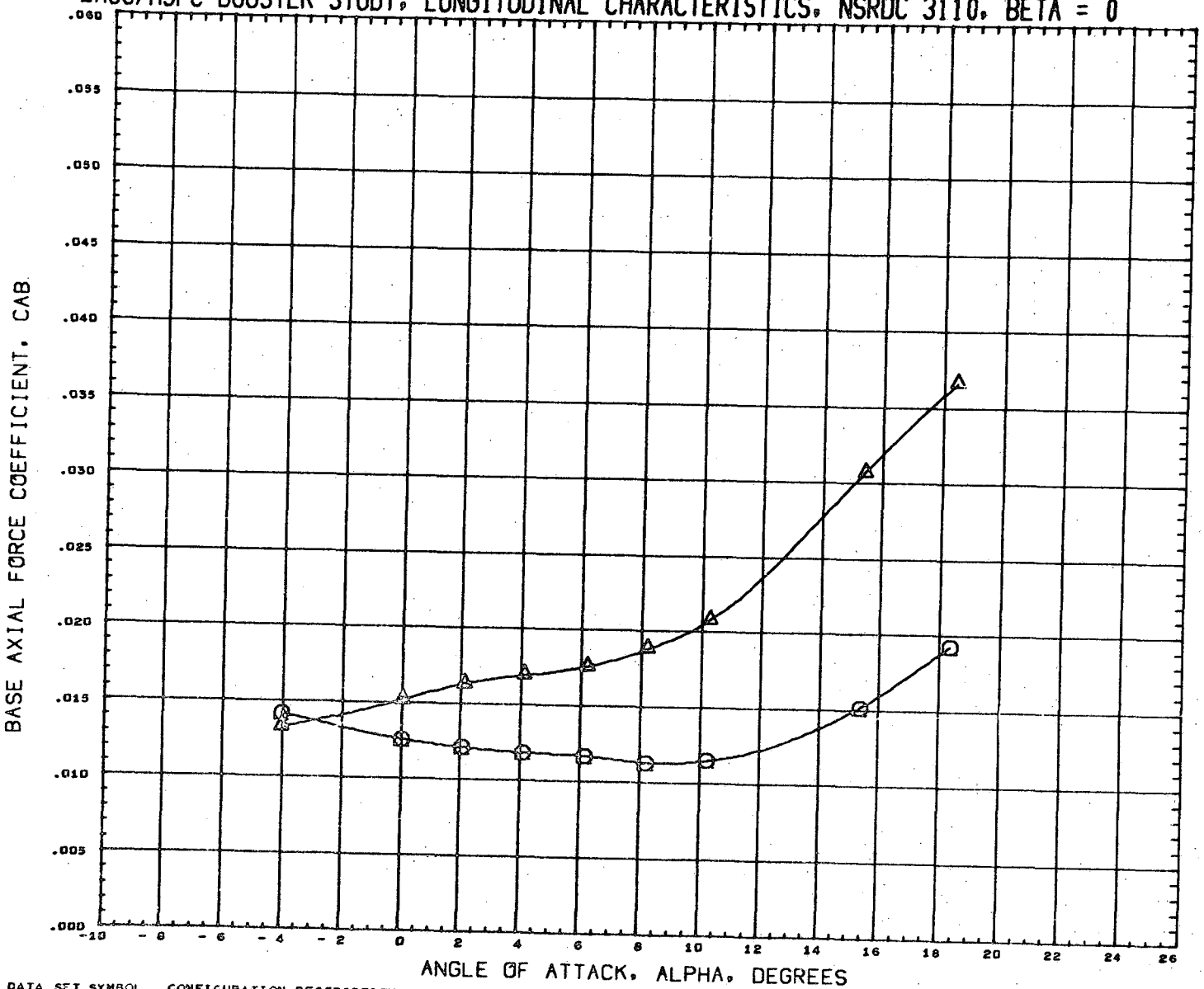
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRF	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



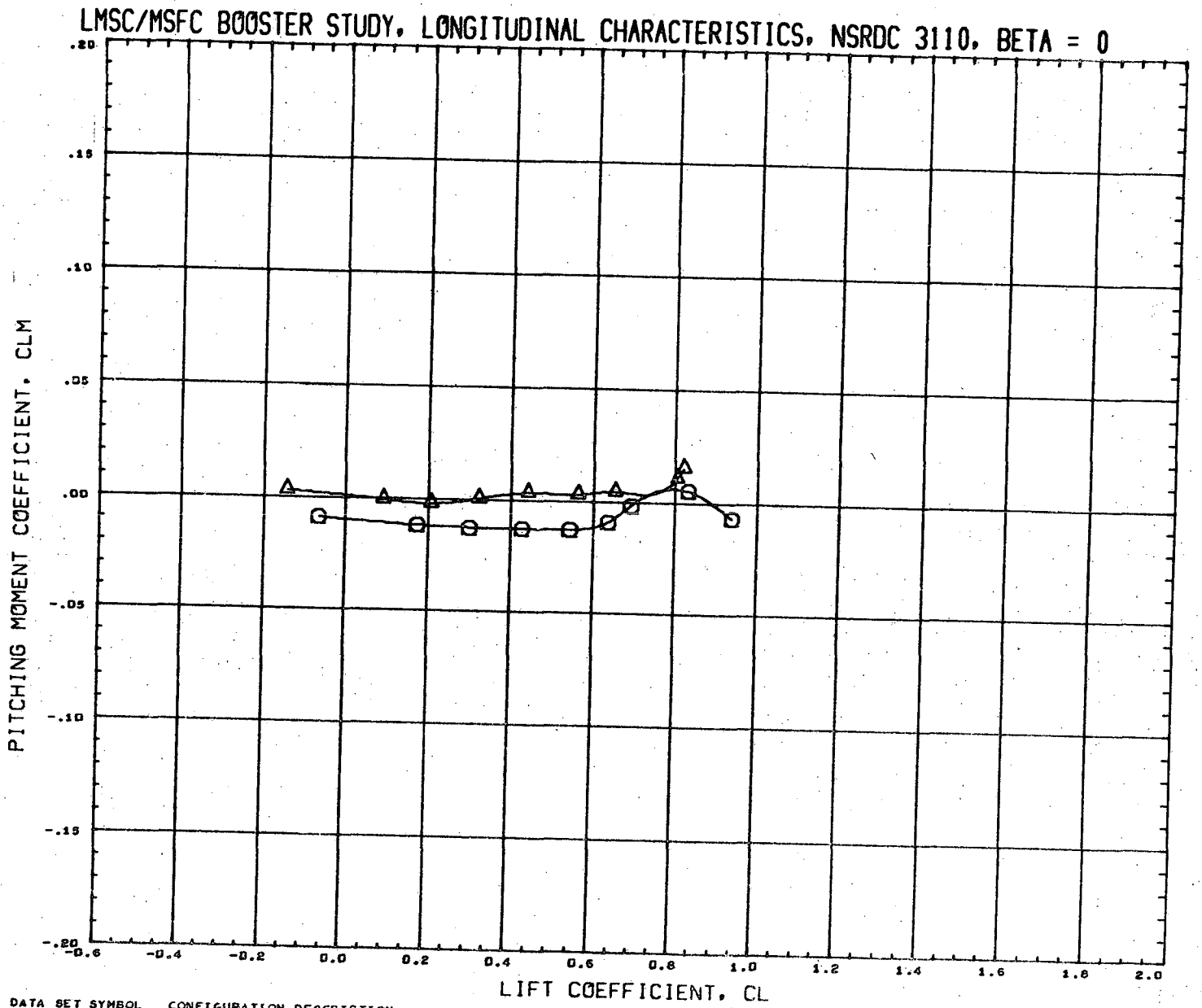
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2293)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2309)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



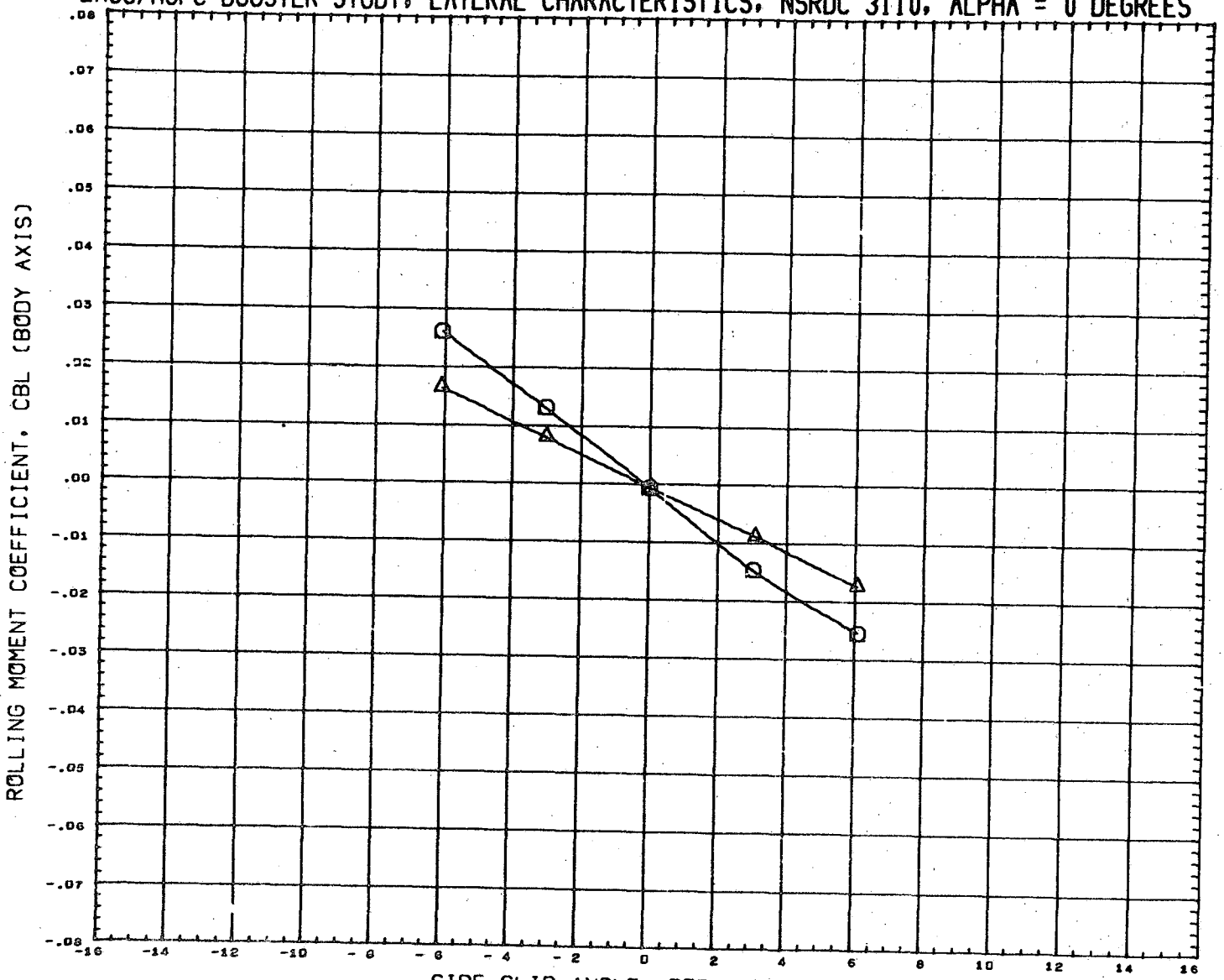
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2293)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2309)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2294)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2310)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

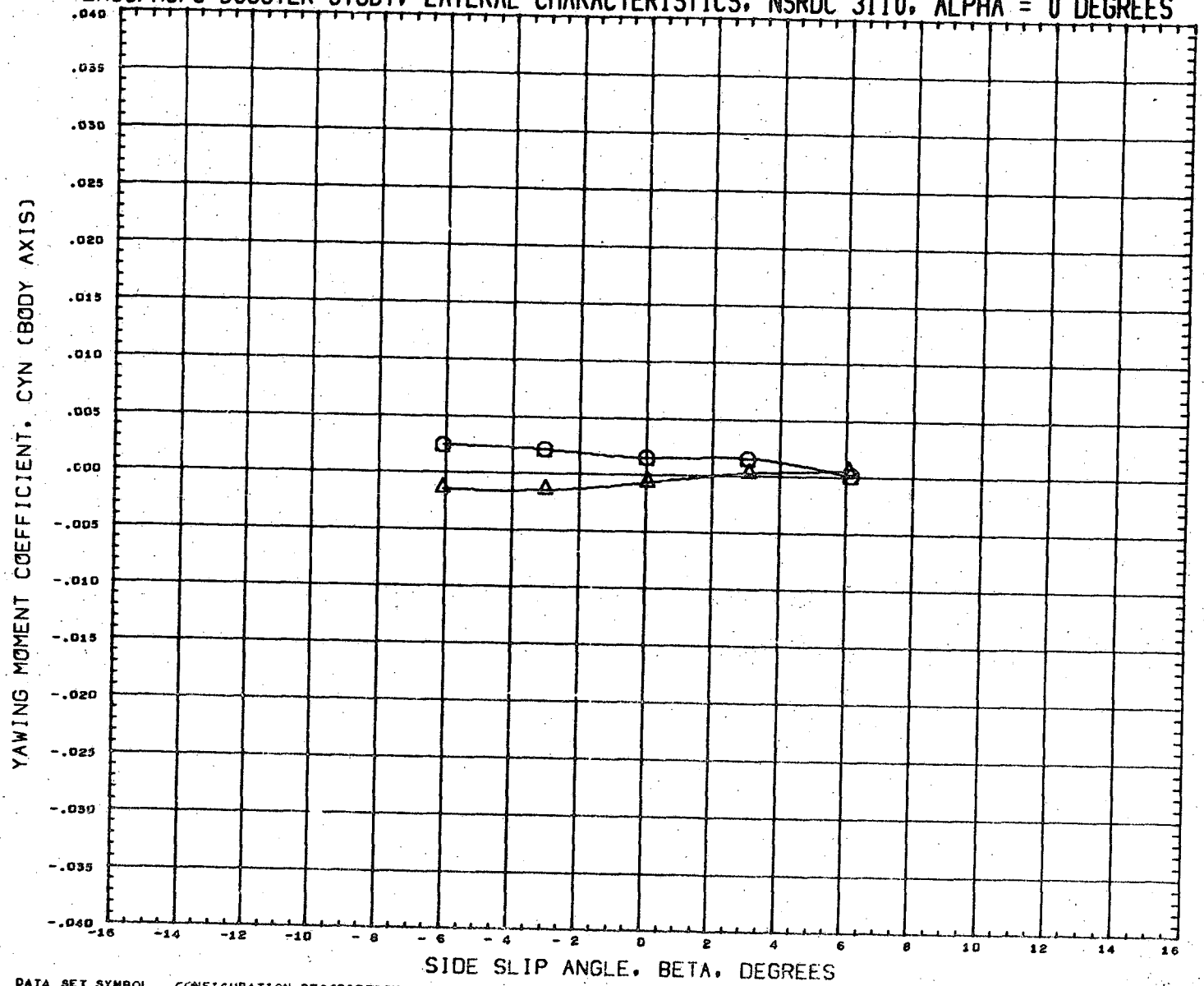
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

MACH 0.361

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

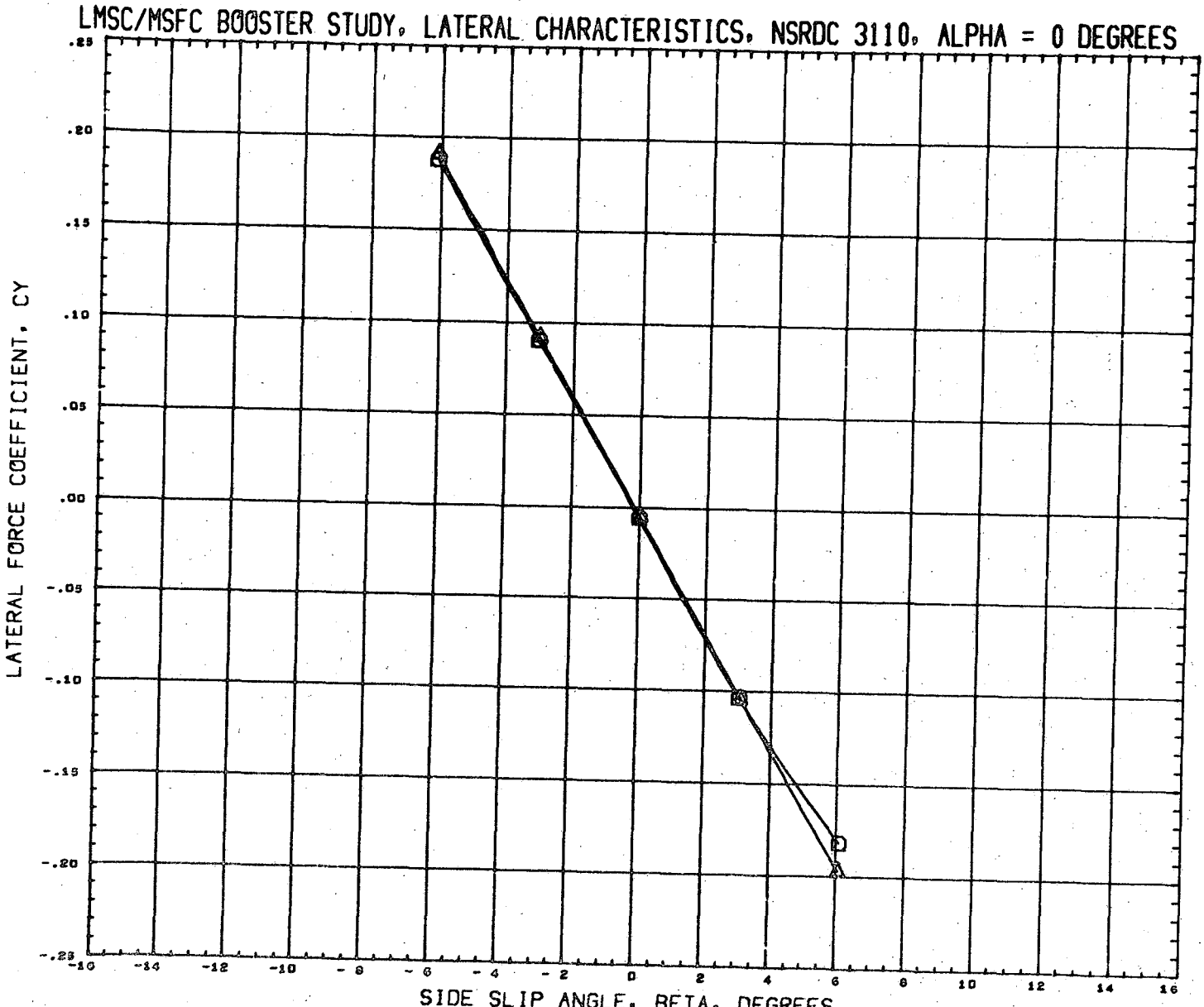


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2294)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2310)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

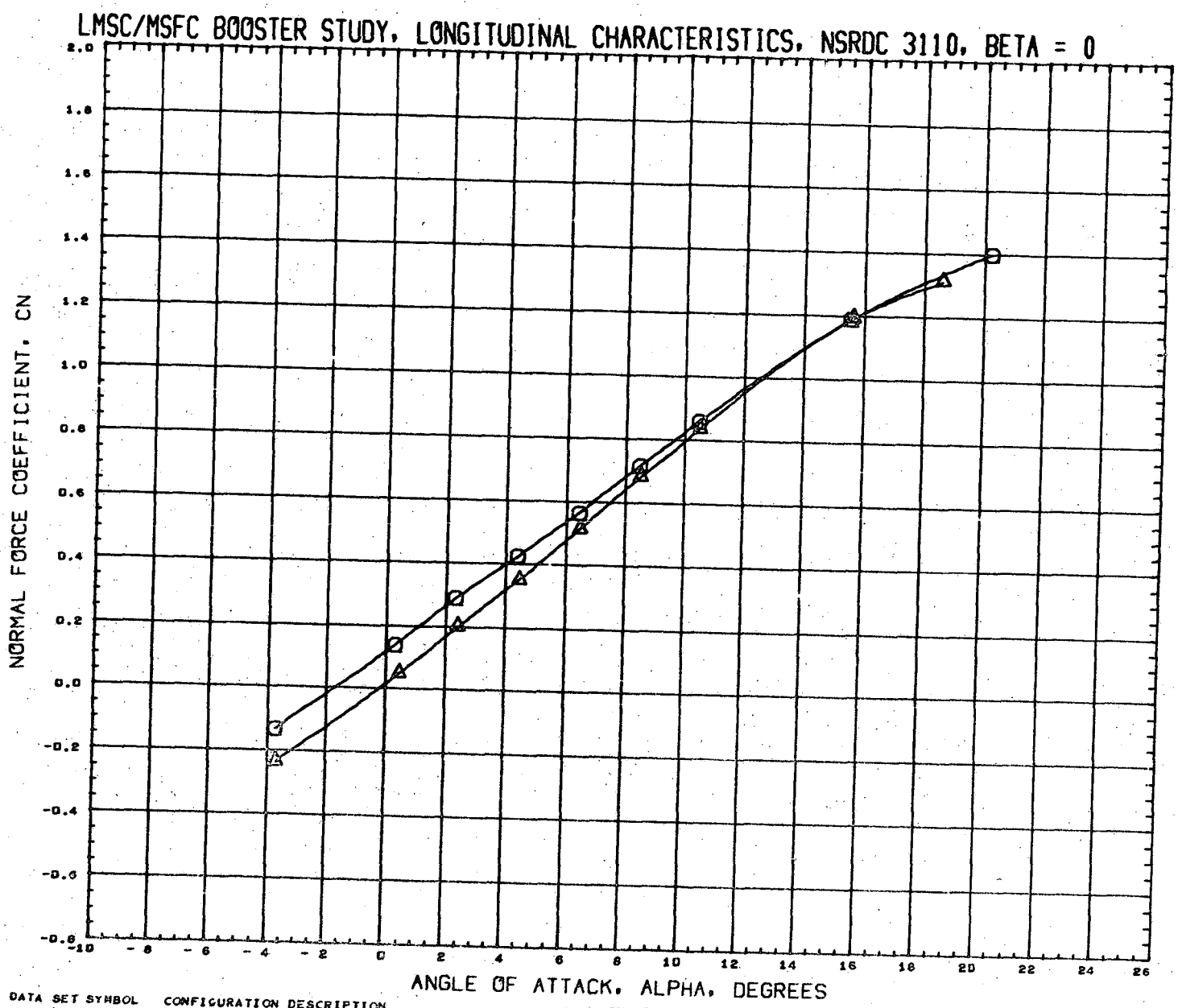


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2294)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2310)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2021)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

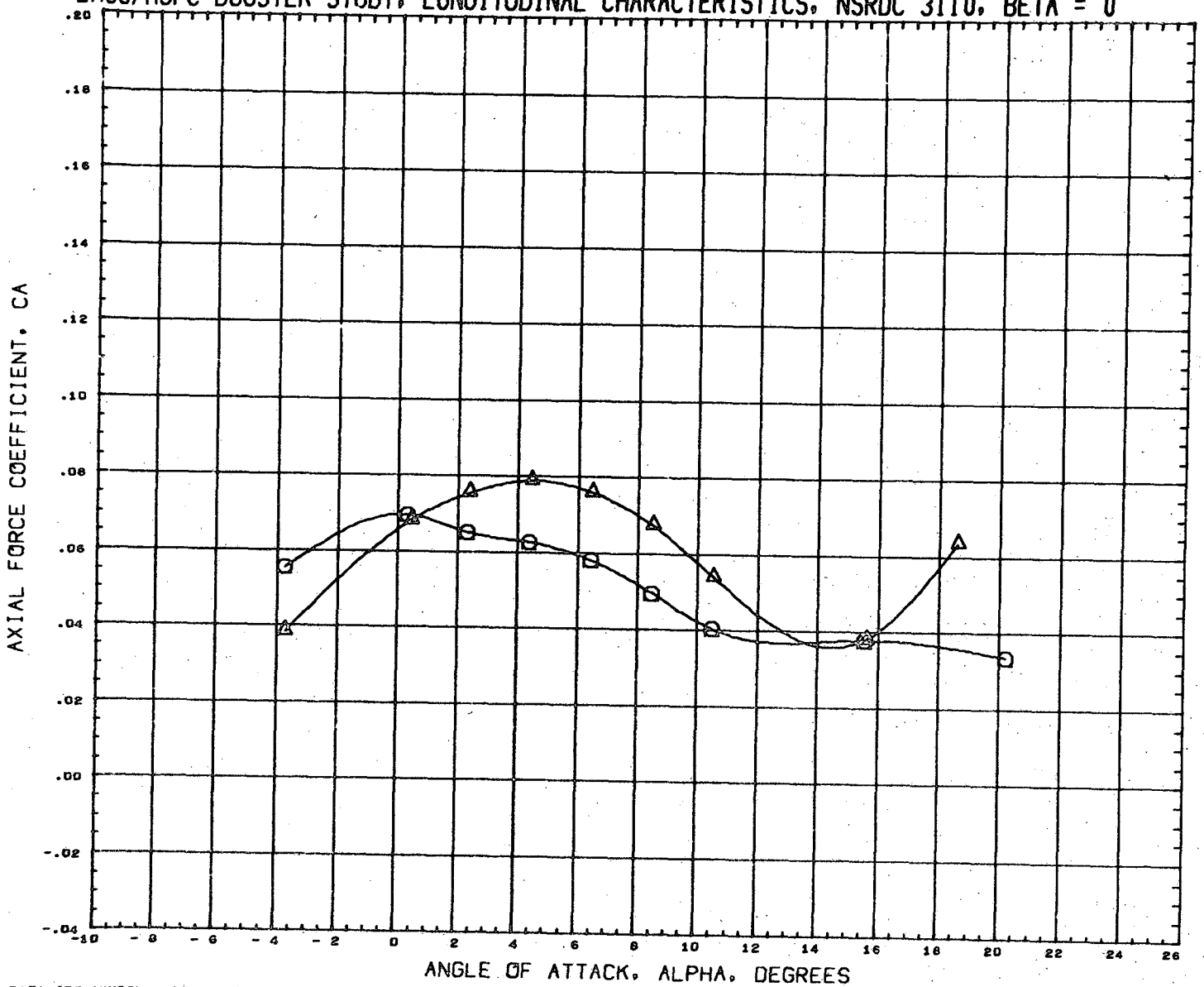
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



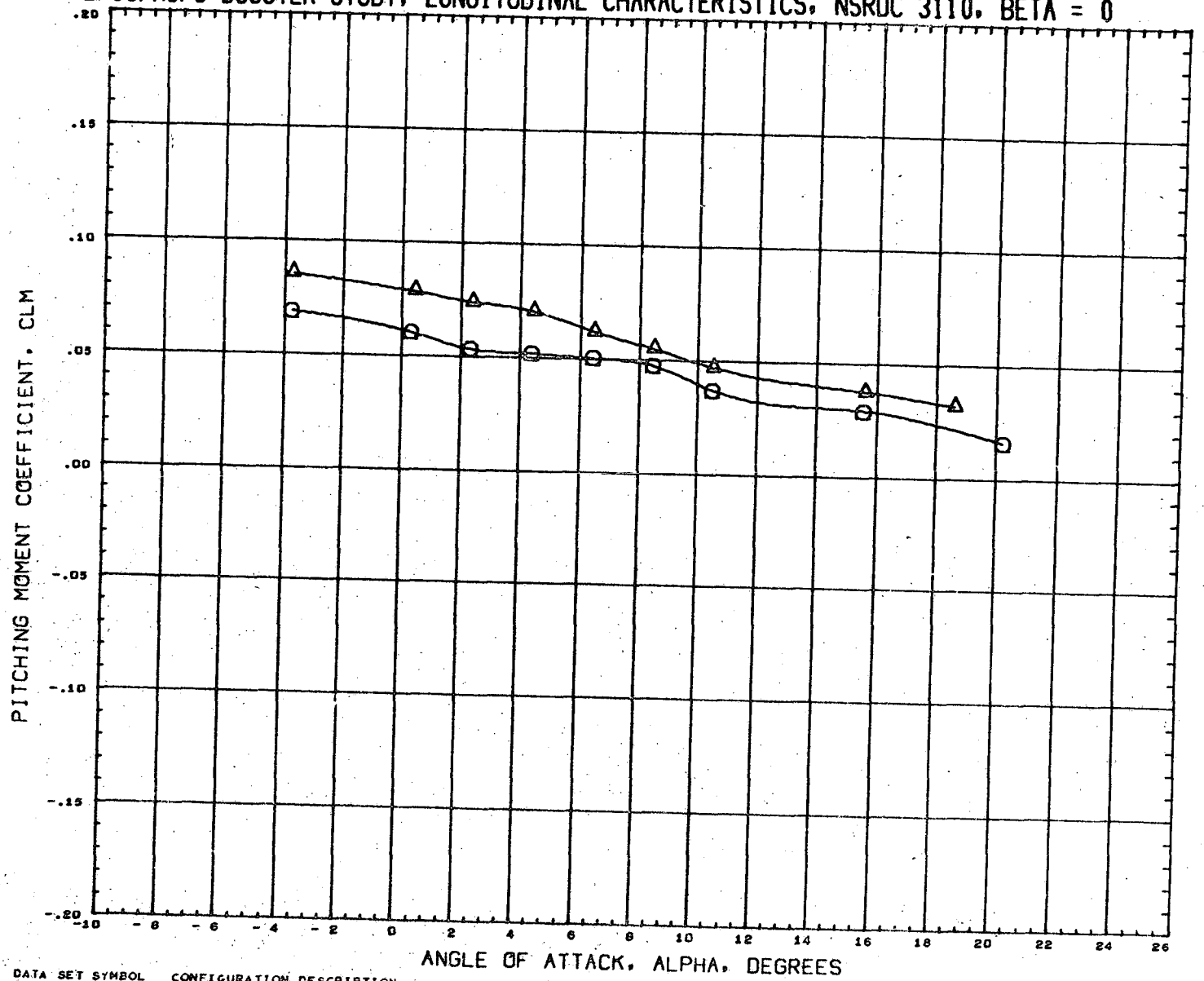
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2021)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



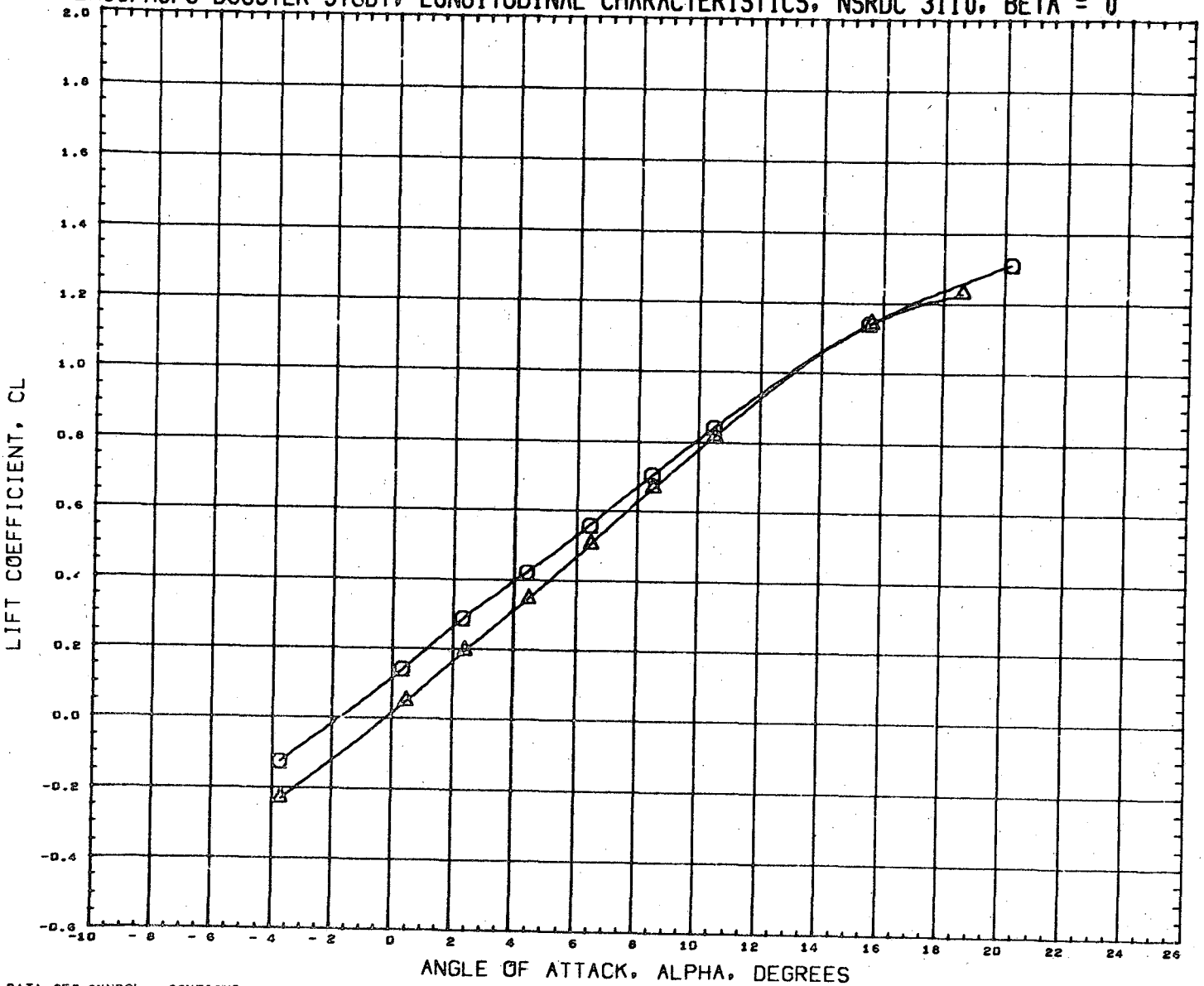
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2005)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2021)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RM2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RM2021)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

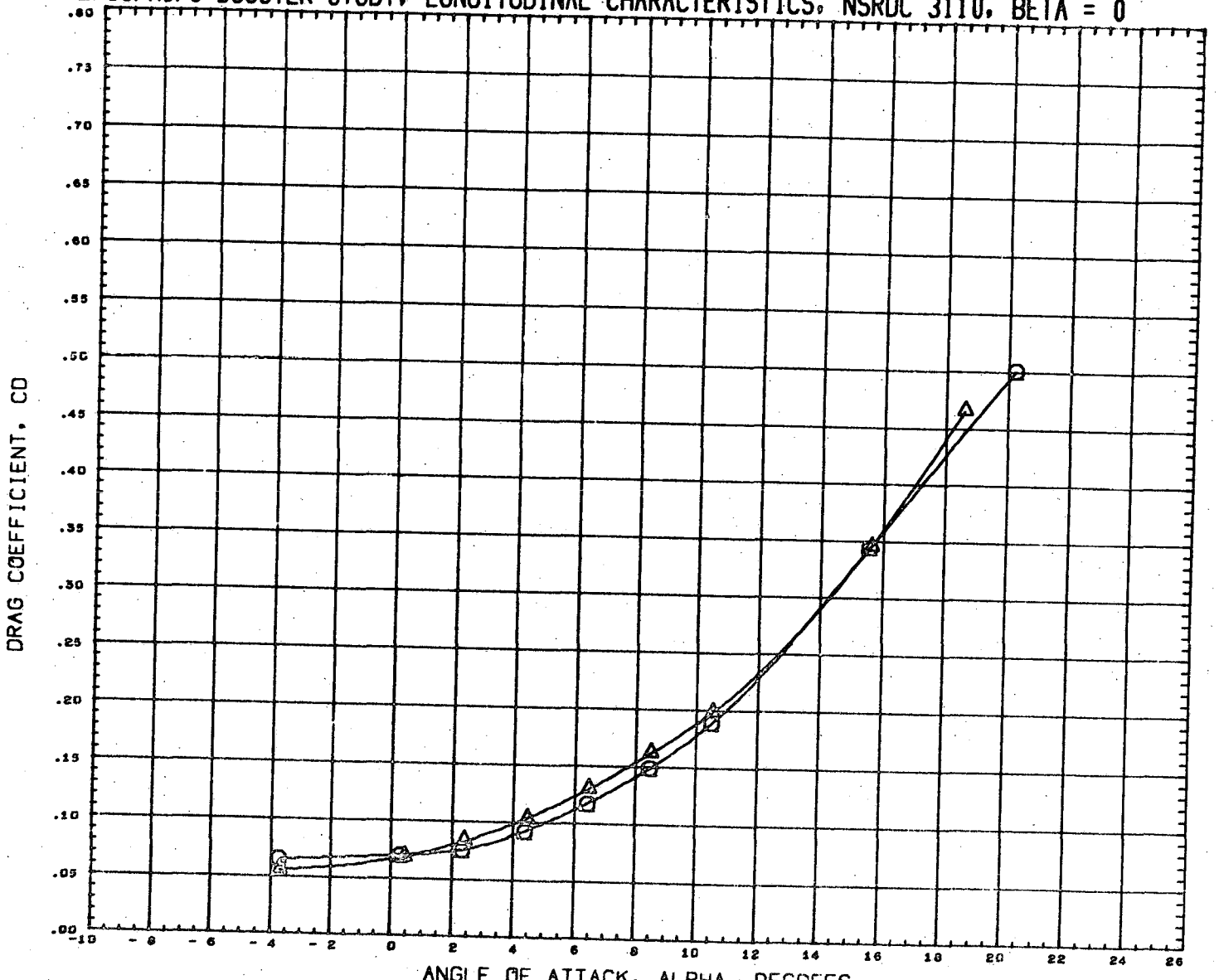
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

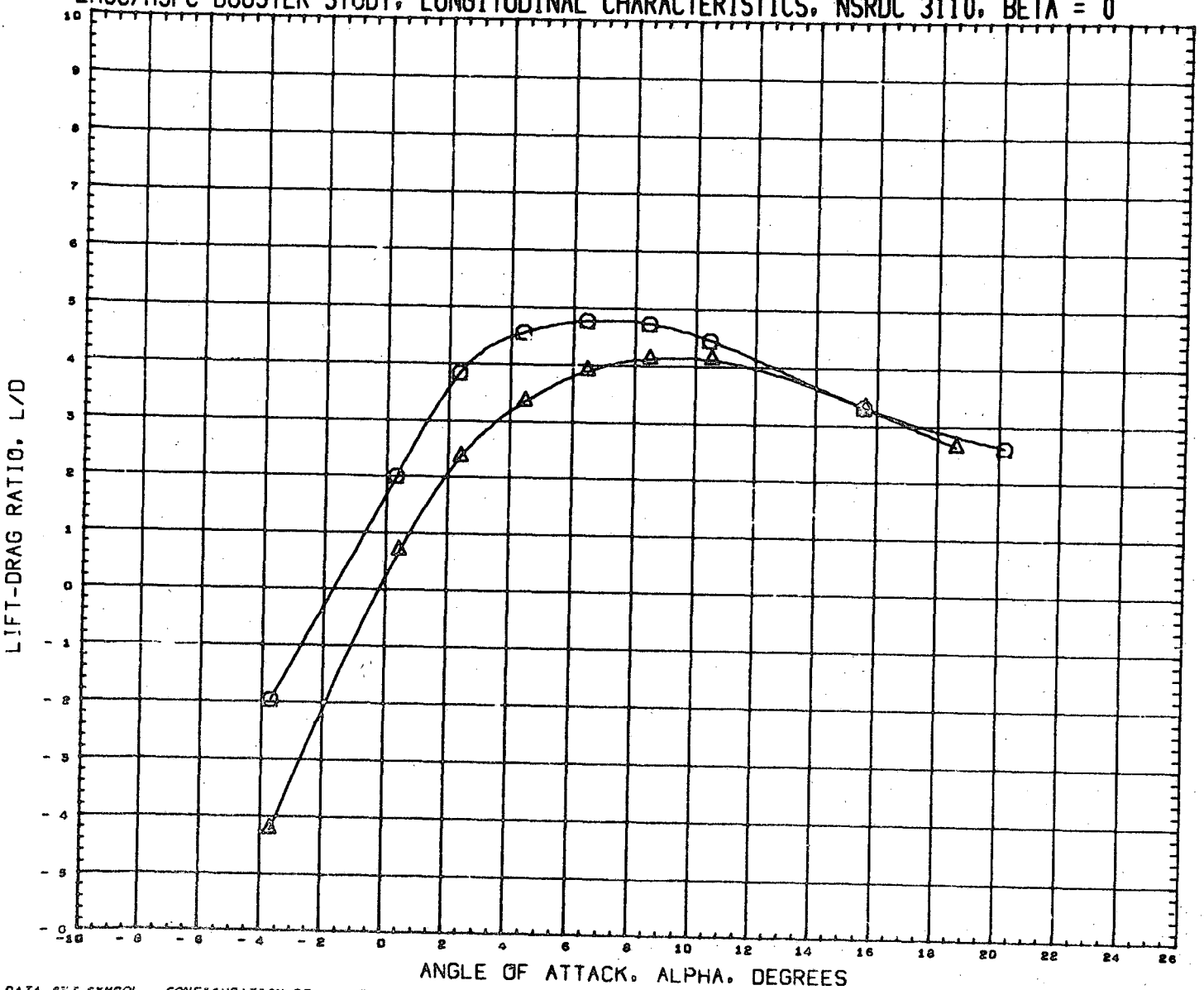


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2005)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2021)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



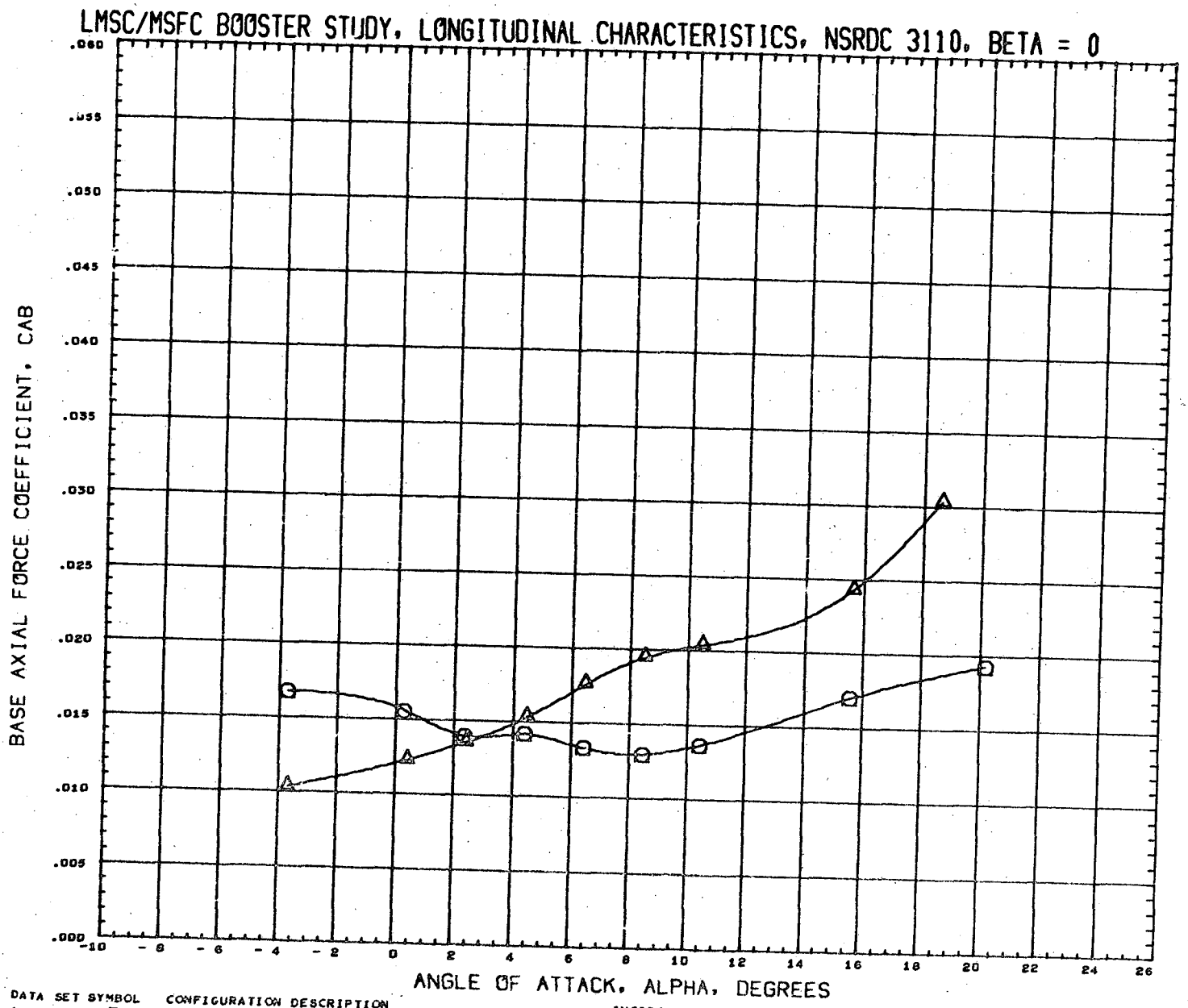
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2005)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2021)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

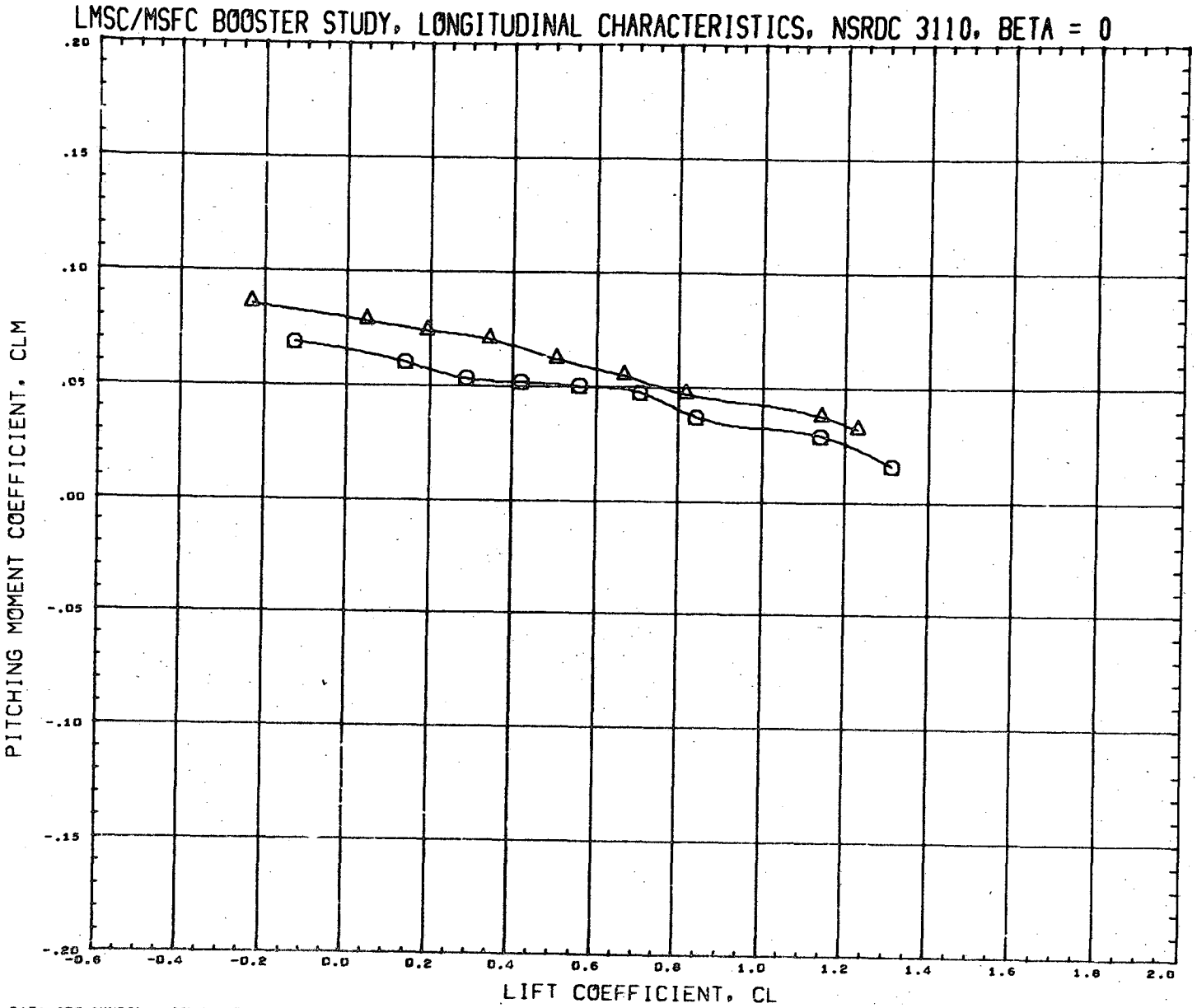


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2021)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379



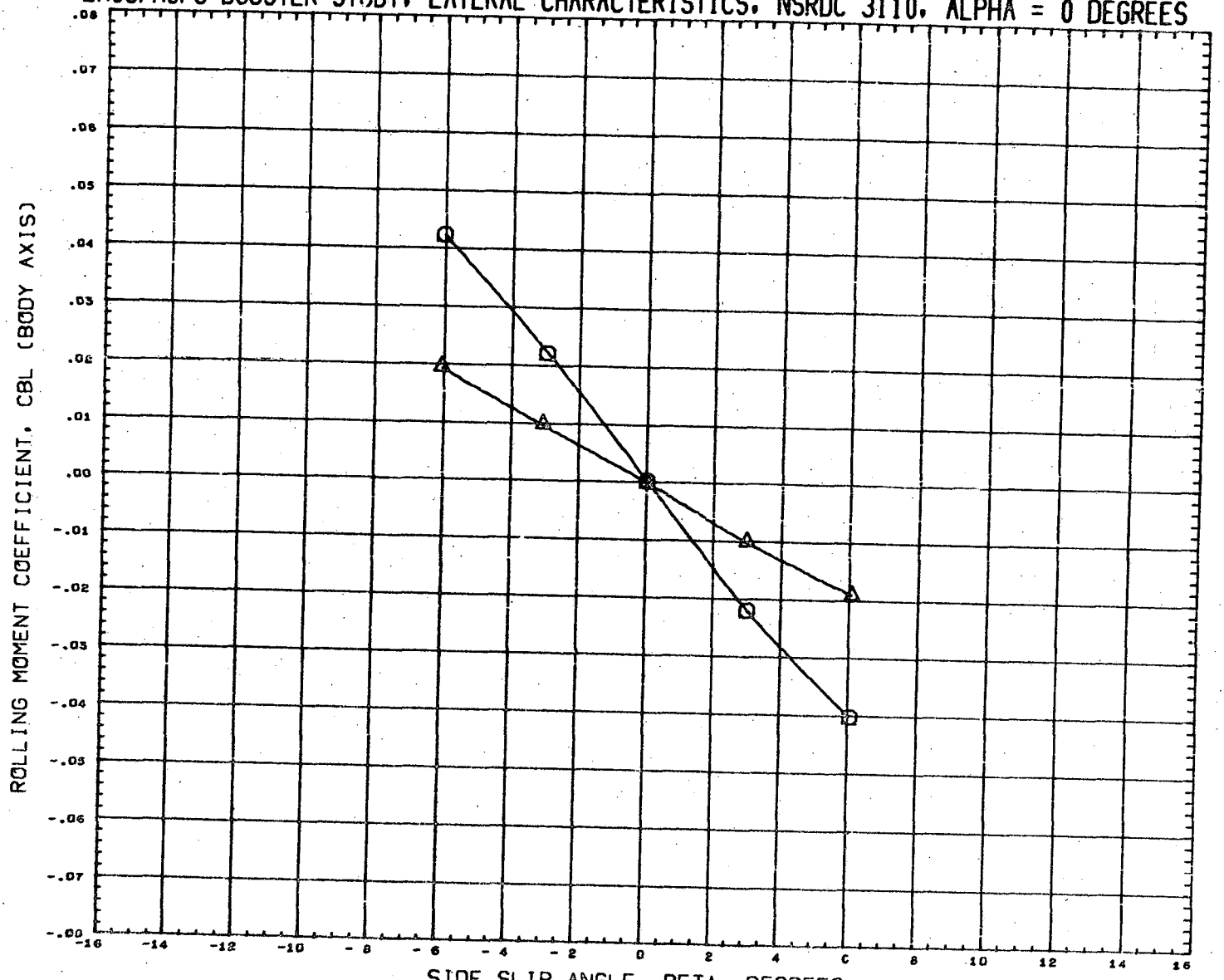
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2005)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2021)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

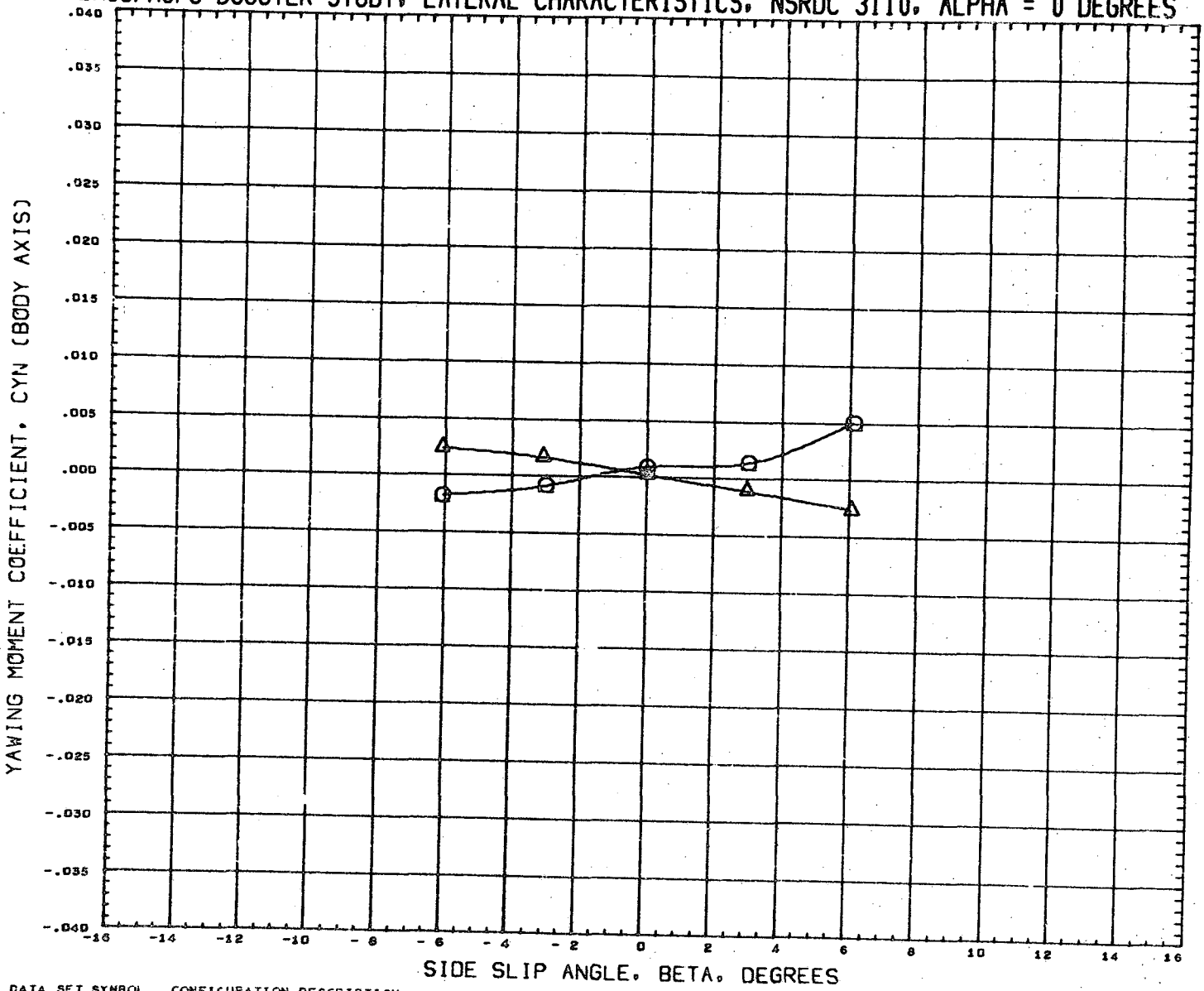


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2006)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2022)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

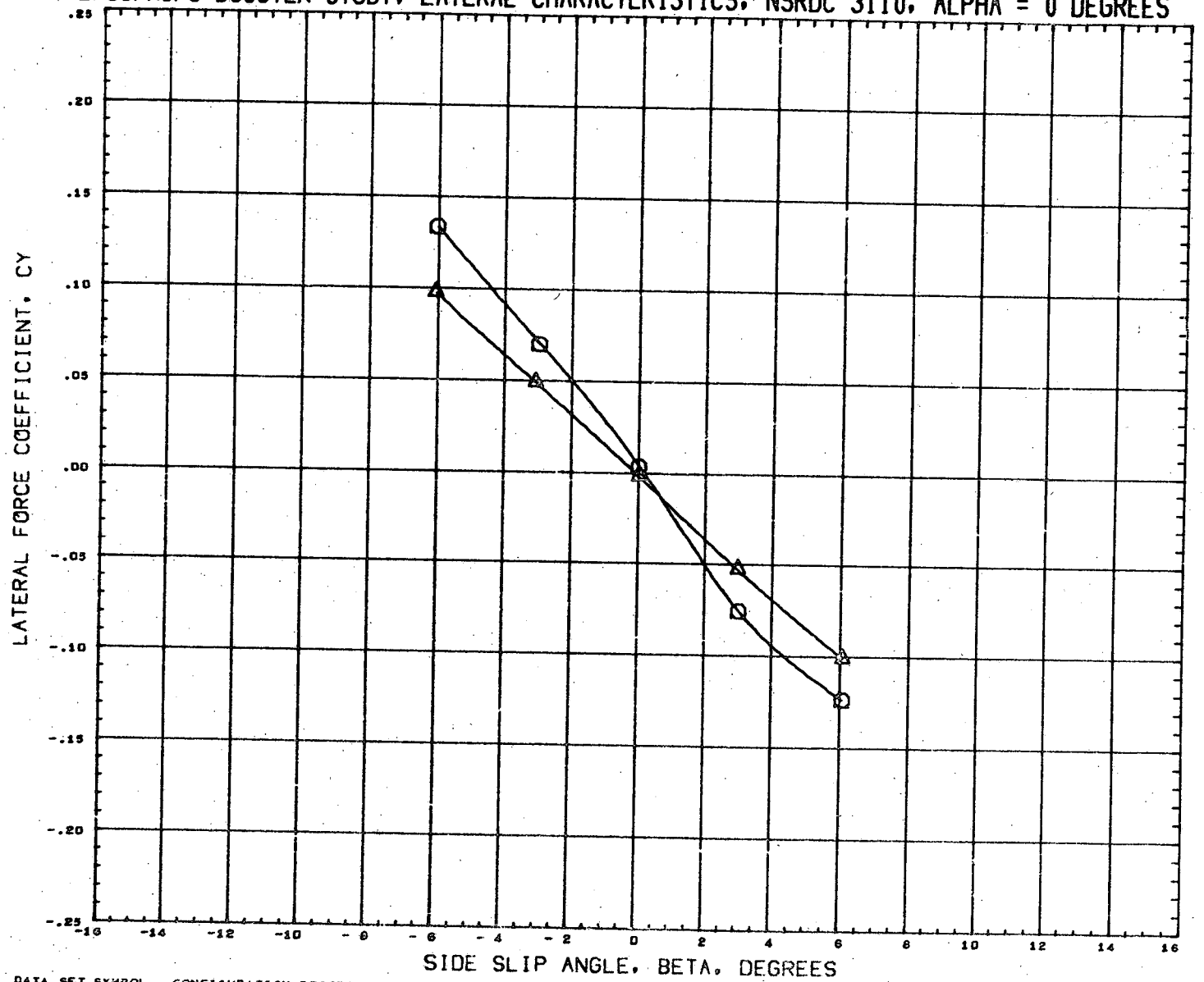


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2006)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000
(RN2022)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



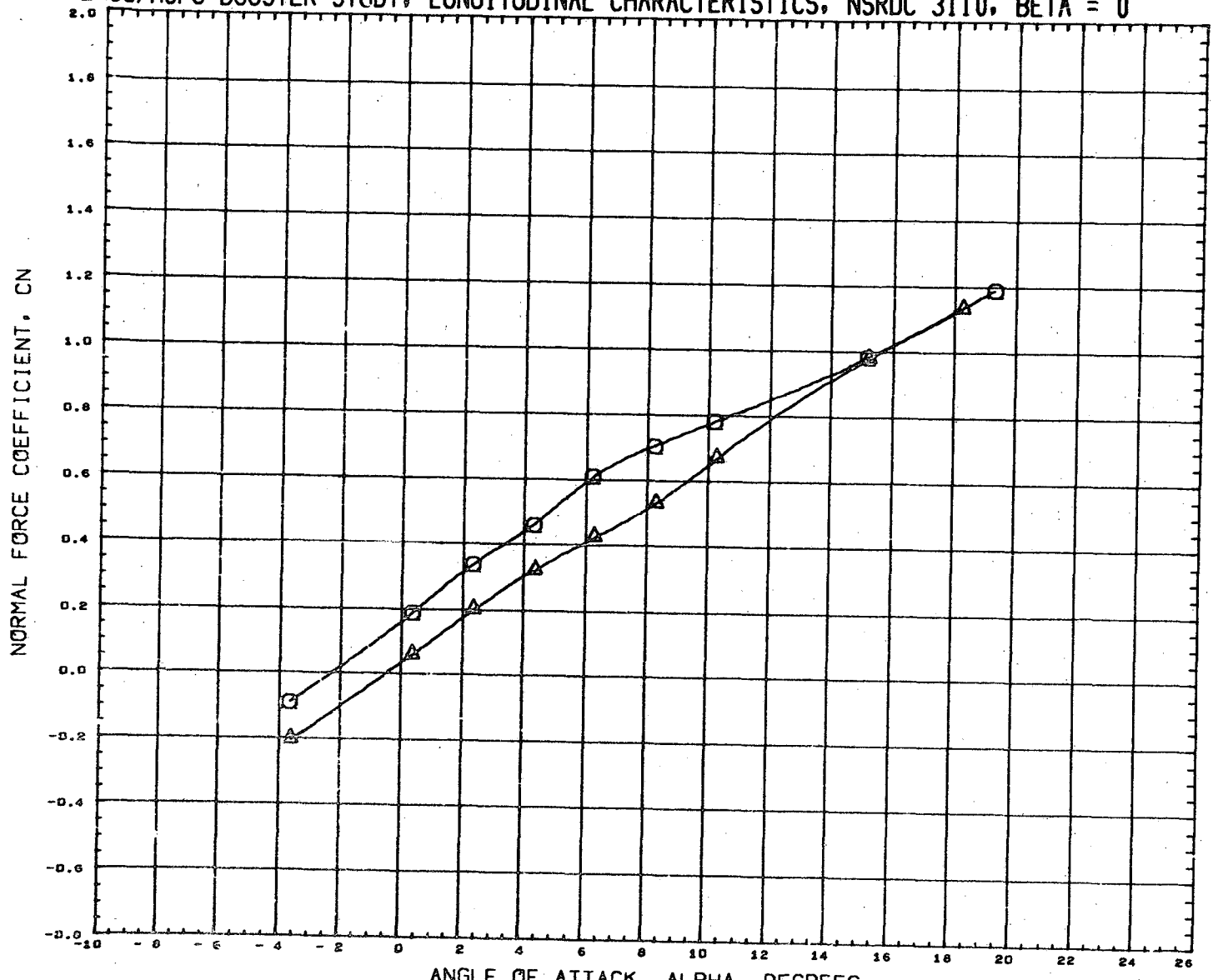
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2006)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2022)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.360

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

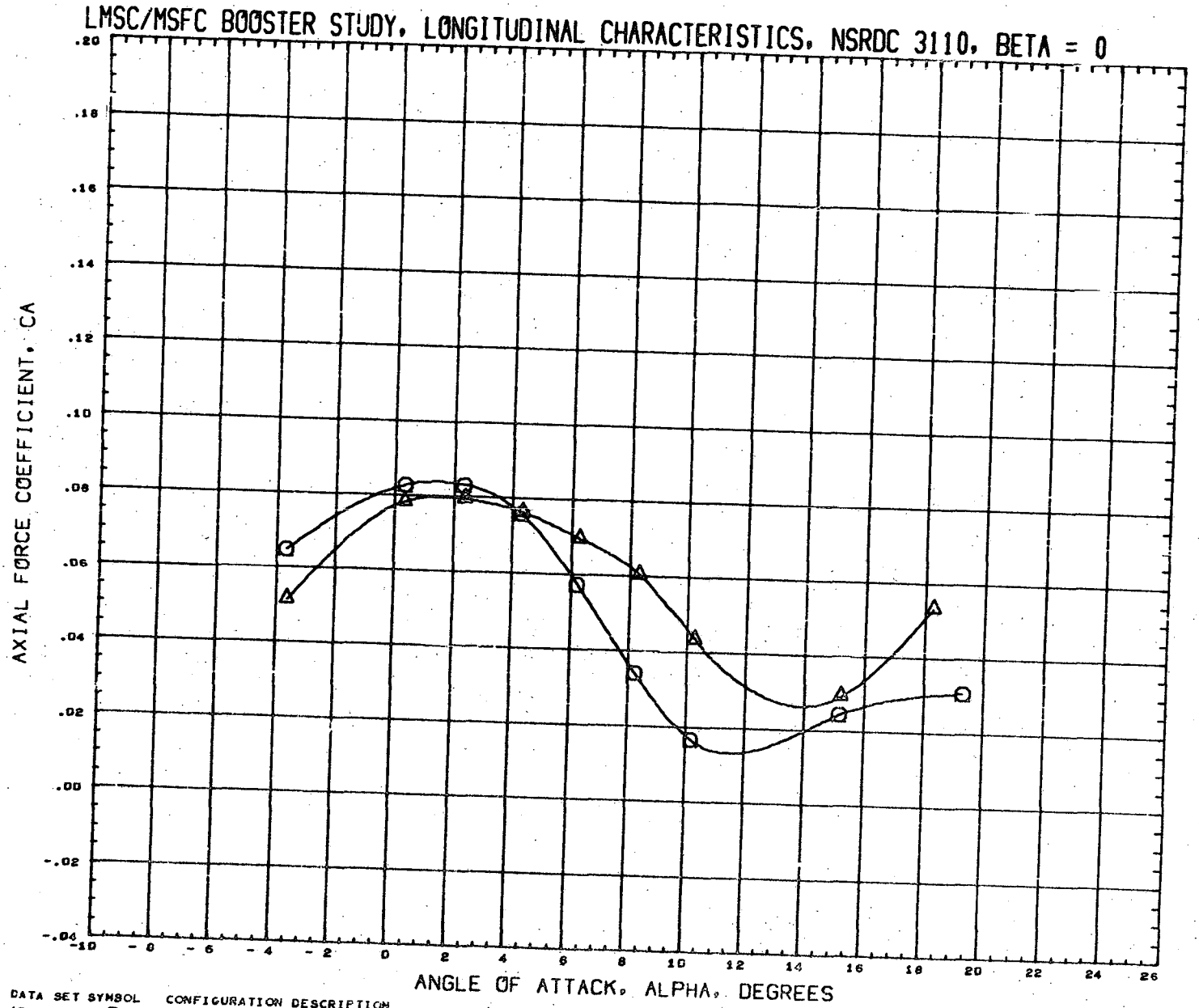


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2013)	NSRDC-3110,MSFC/LHSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2029)	NSRDC-3110,MSFC/LHSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

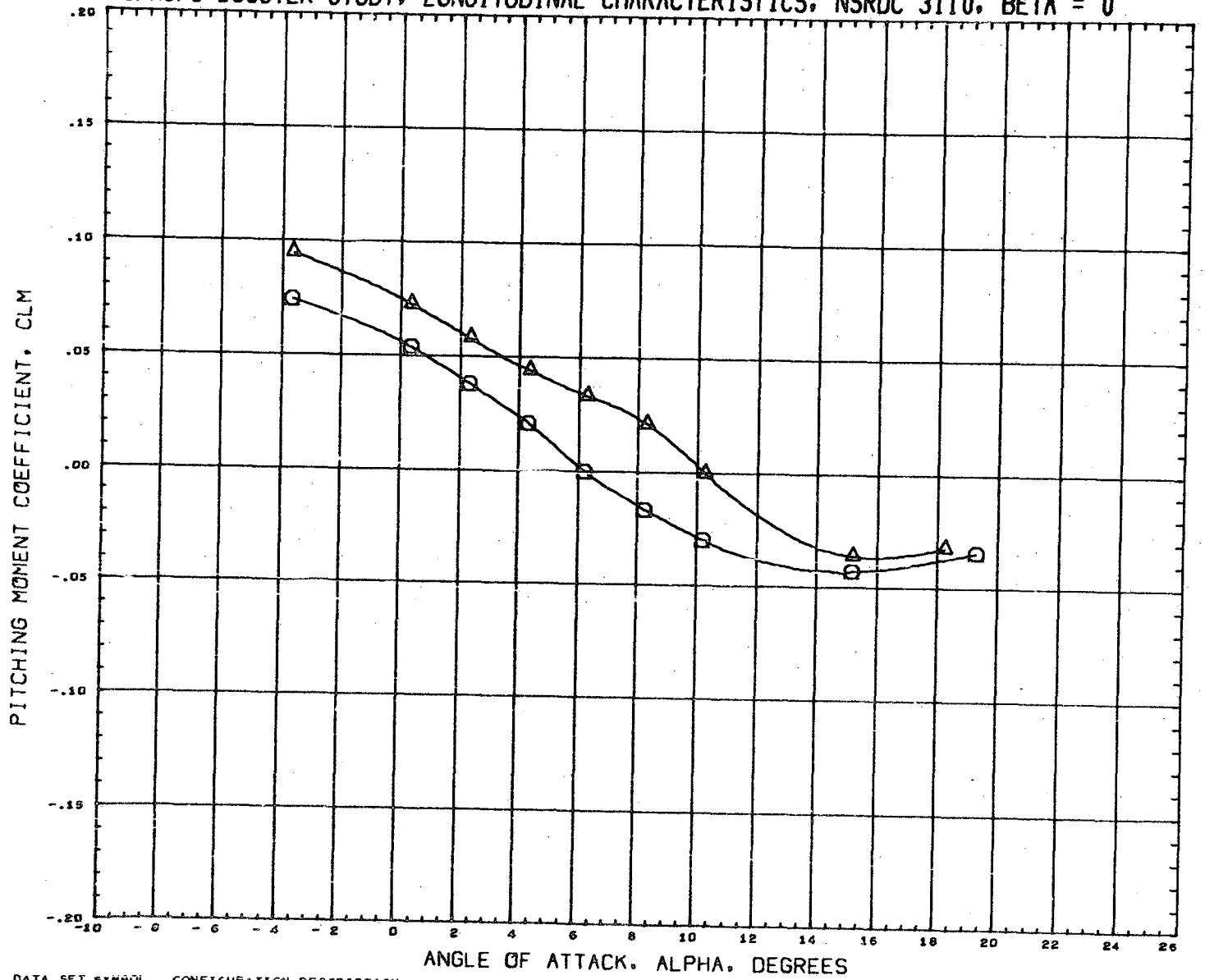


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

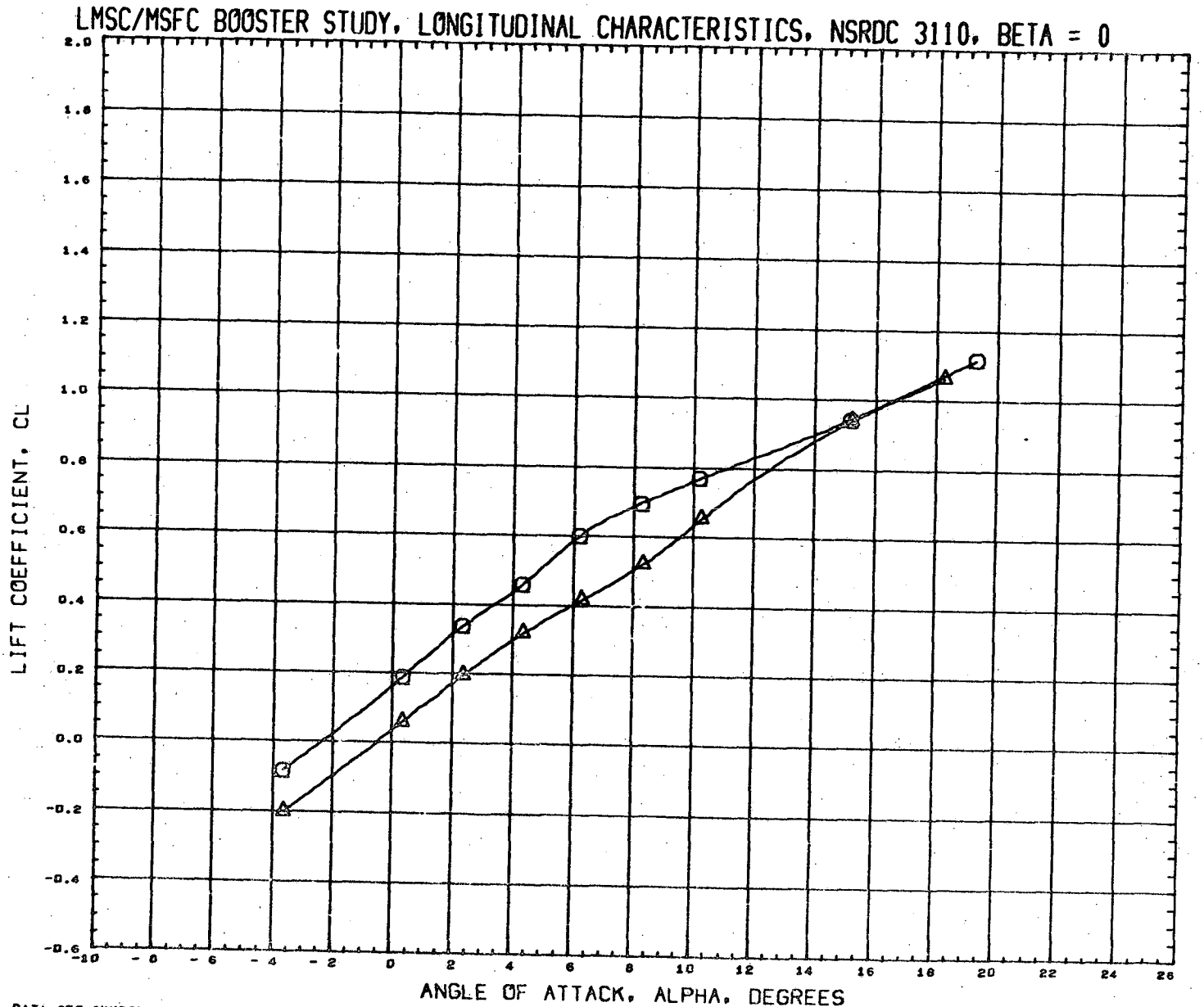
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

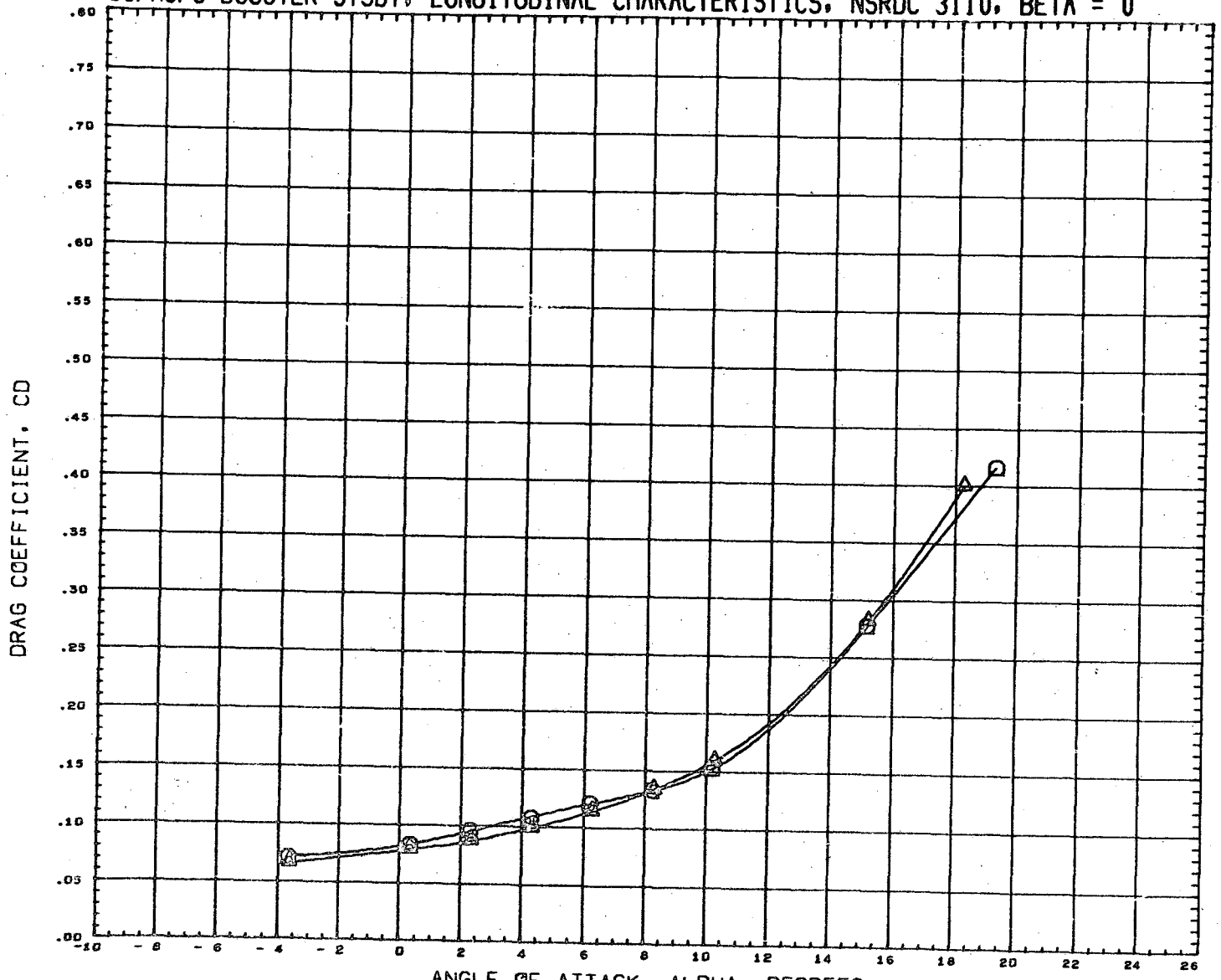


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2029)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

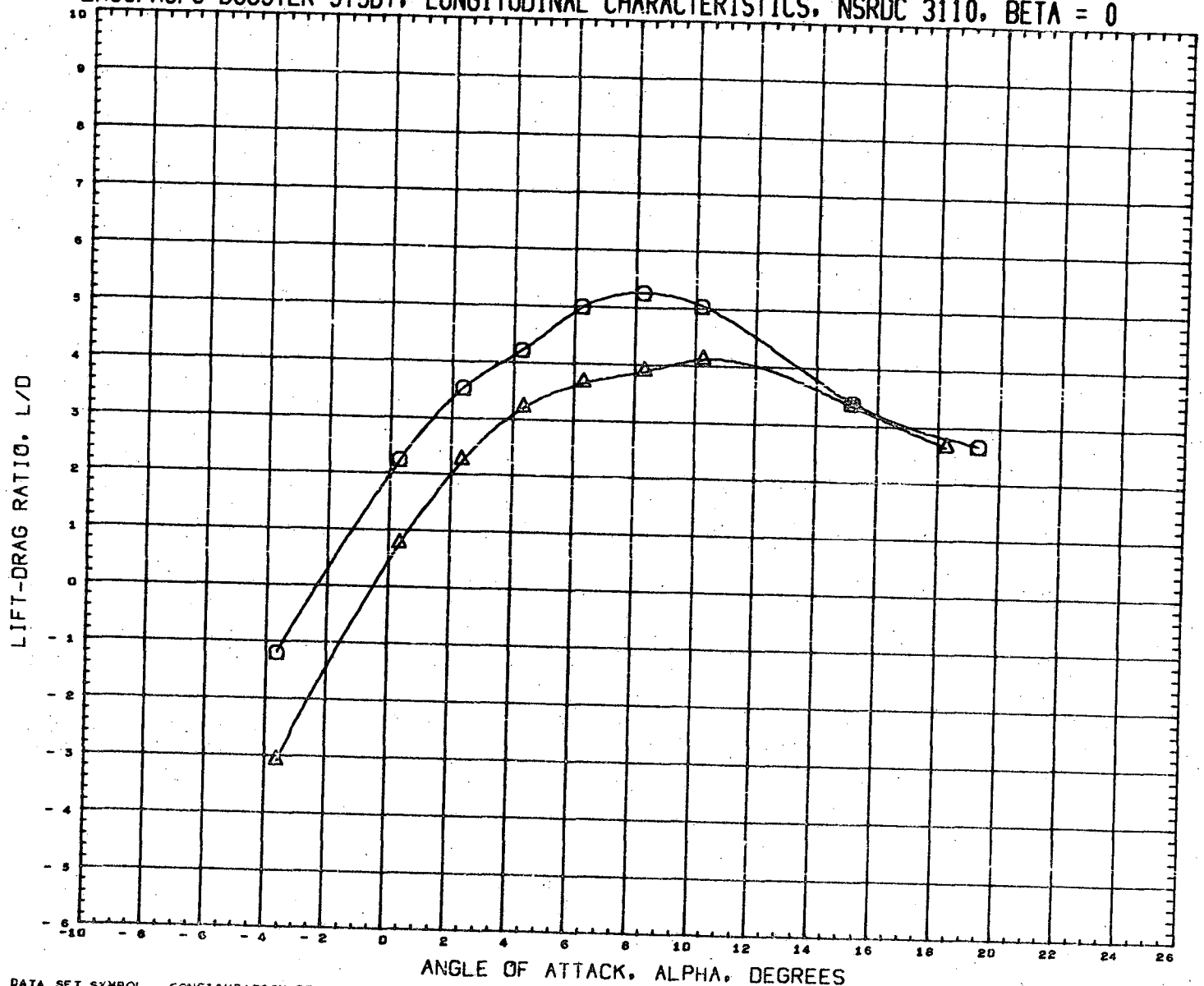


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2013)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2029)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

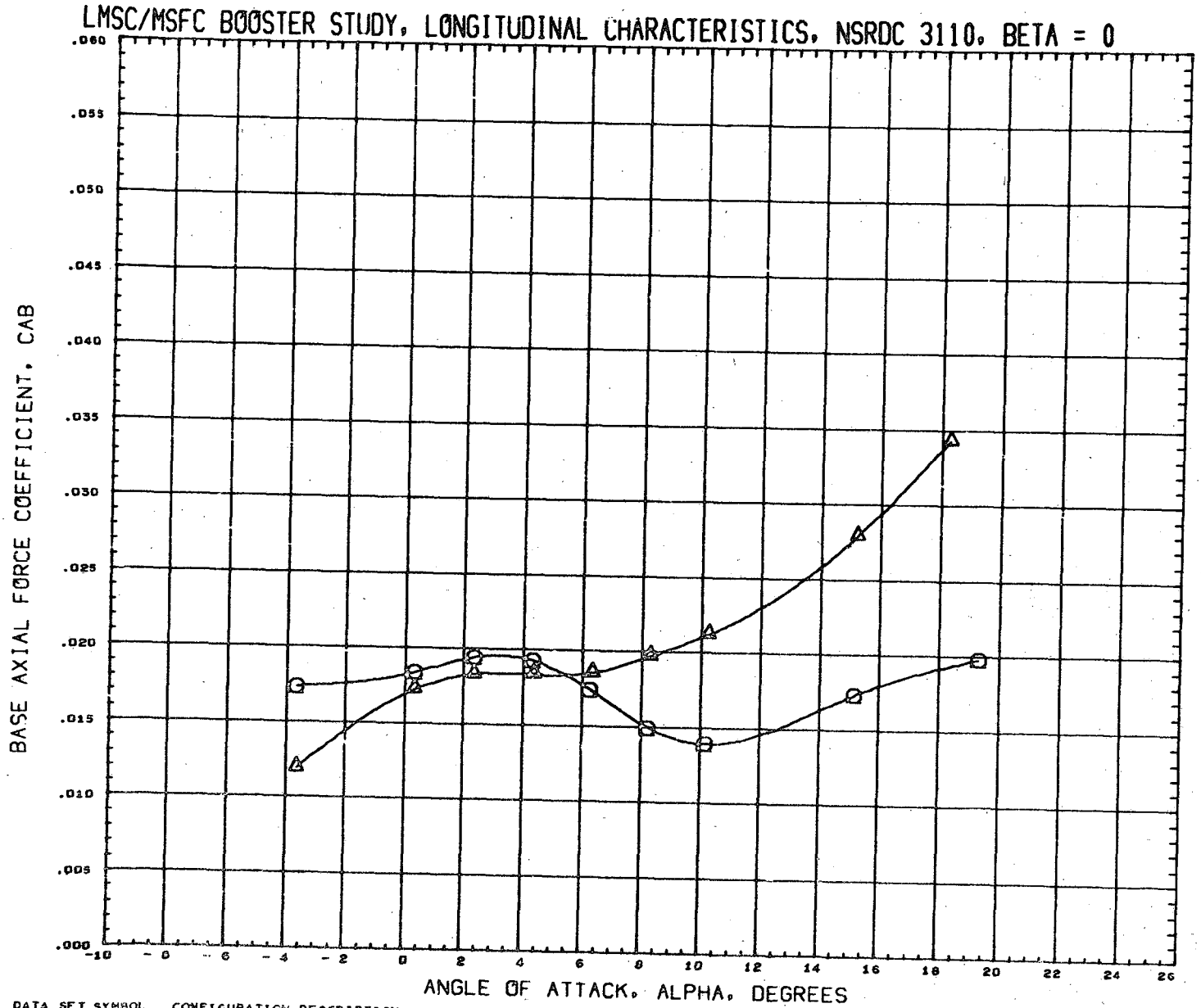


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2029)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

MACH 0.582

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

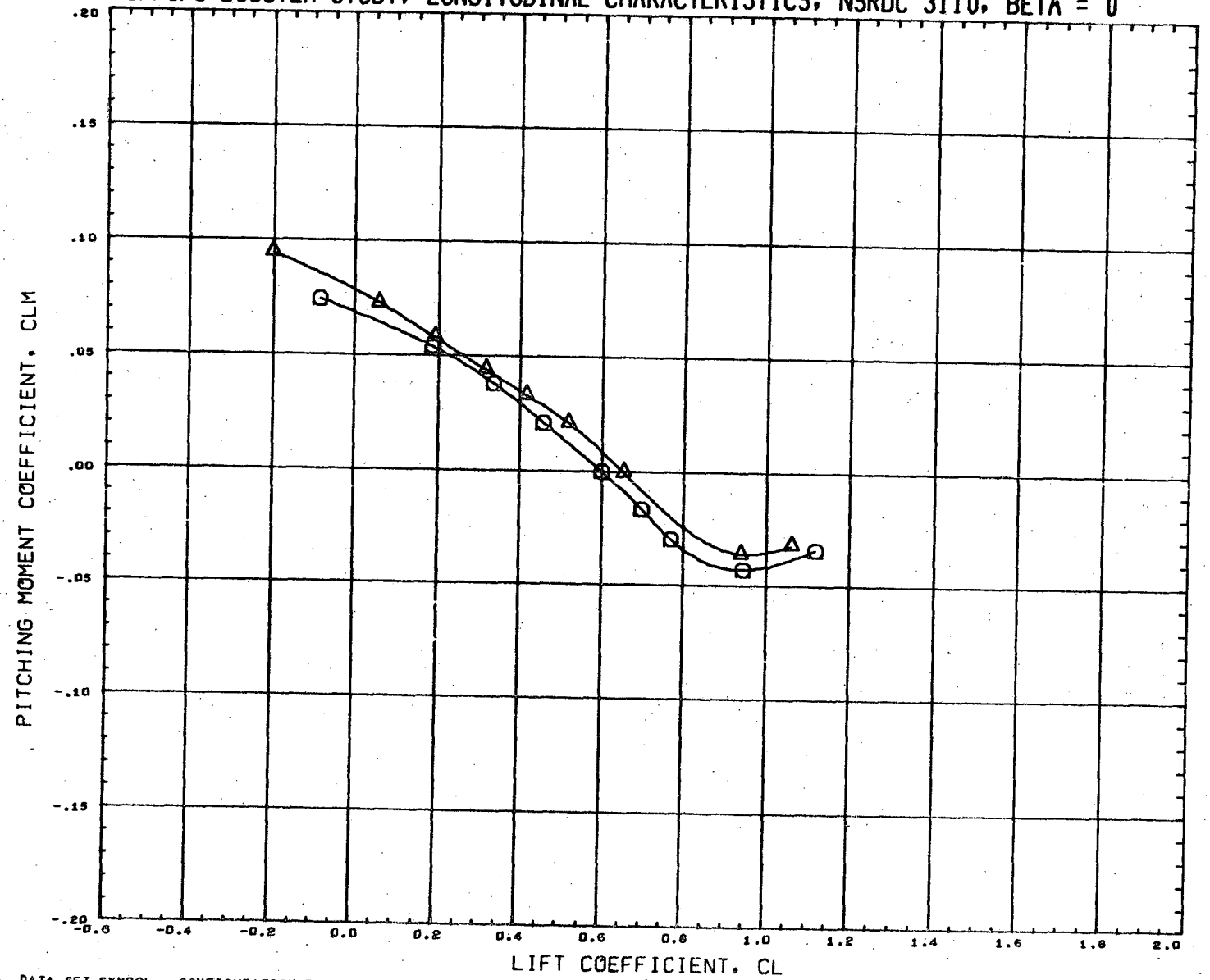


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

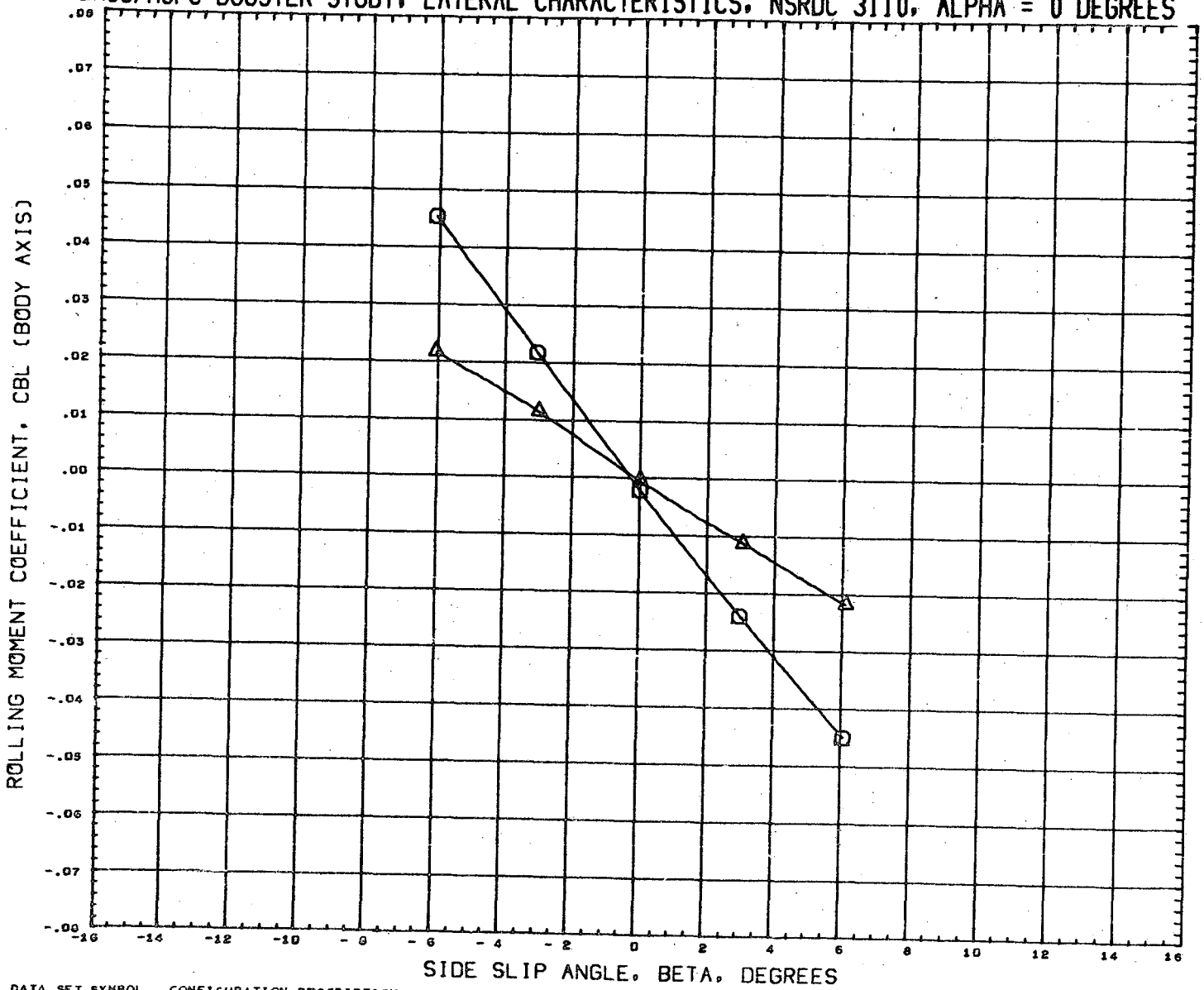


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2013)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2029)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

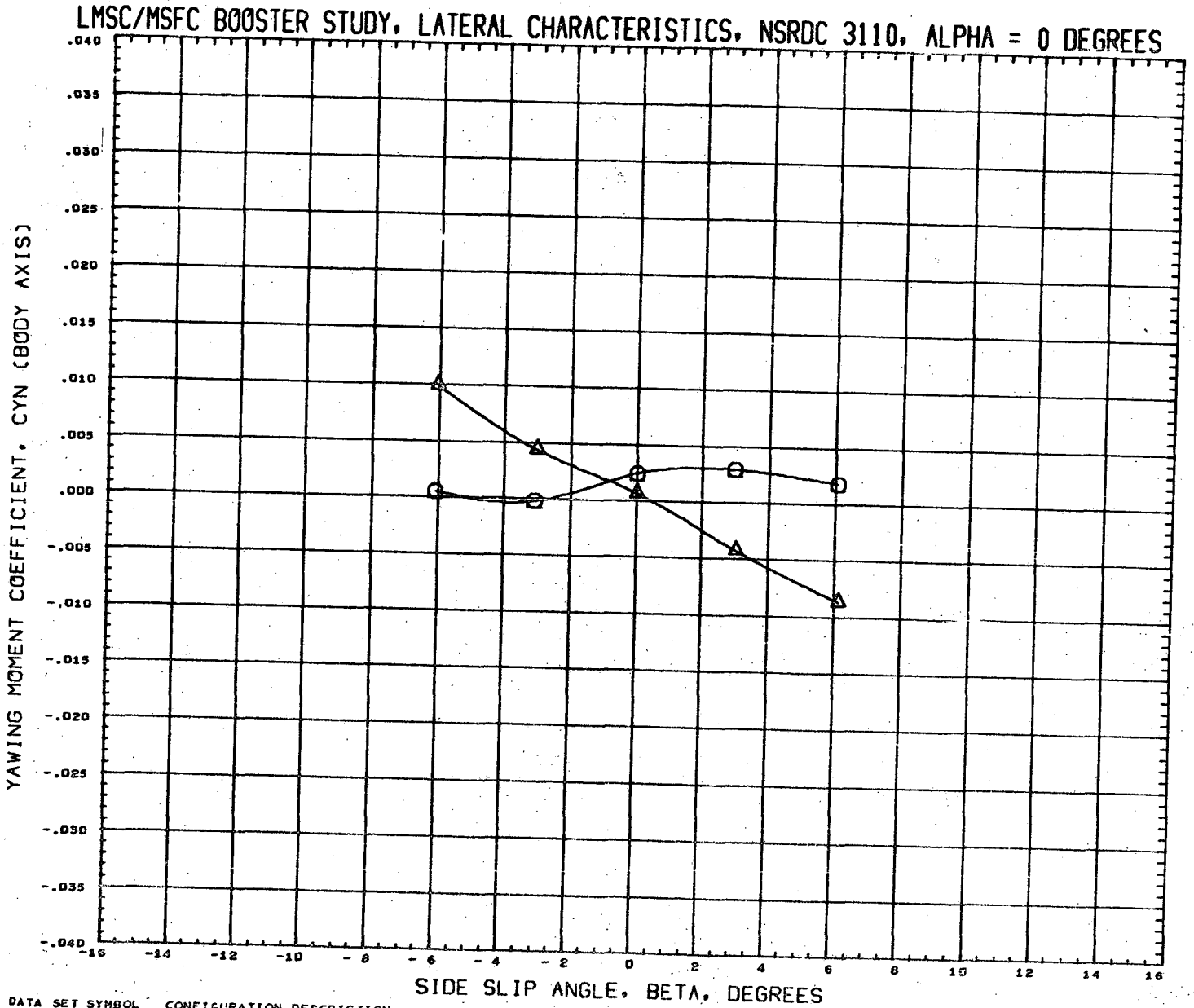
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2014)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2G30)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.381

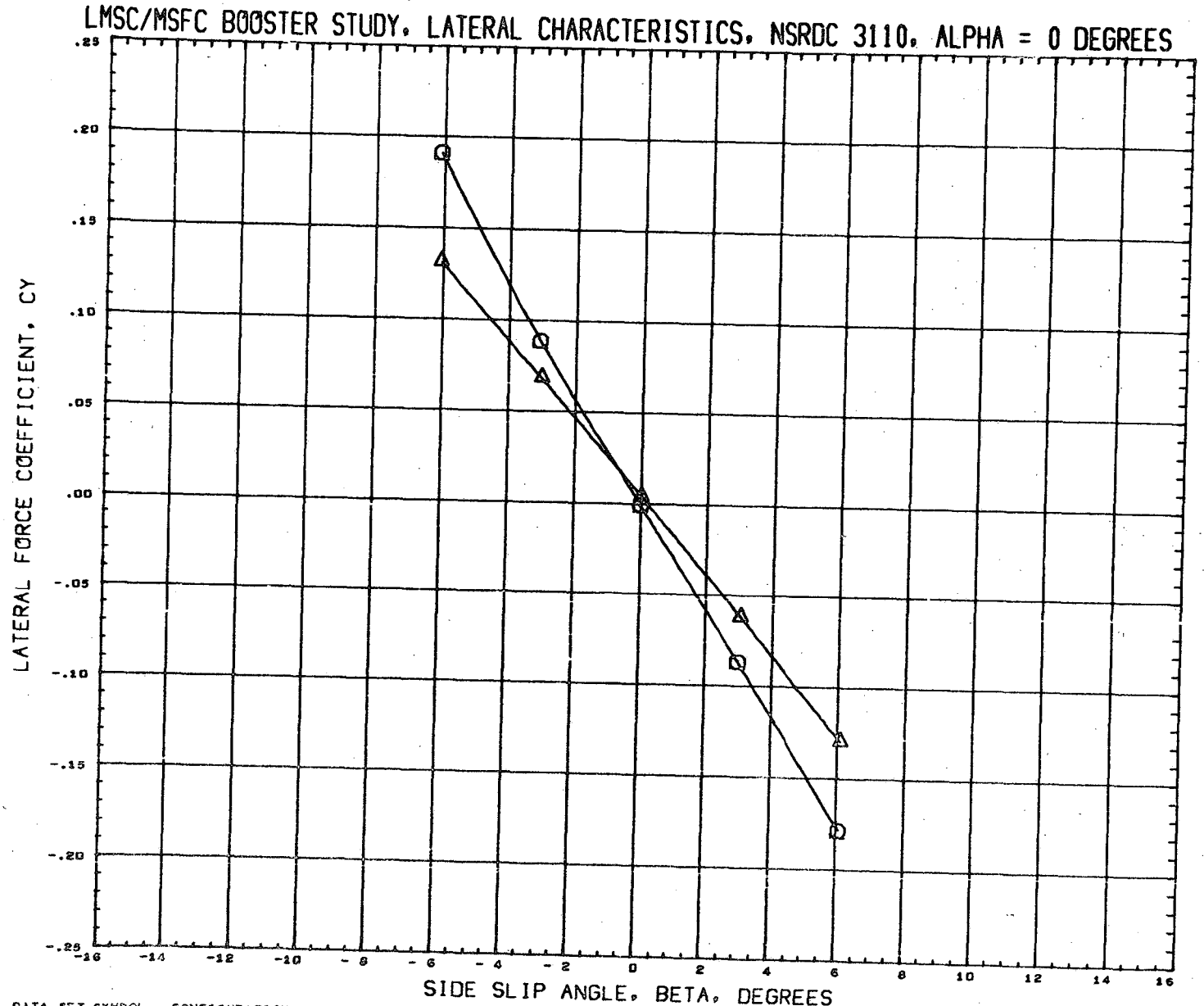
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2014) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000
(RN2030) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000

MACH 0.391

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



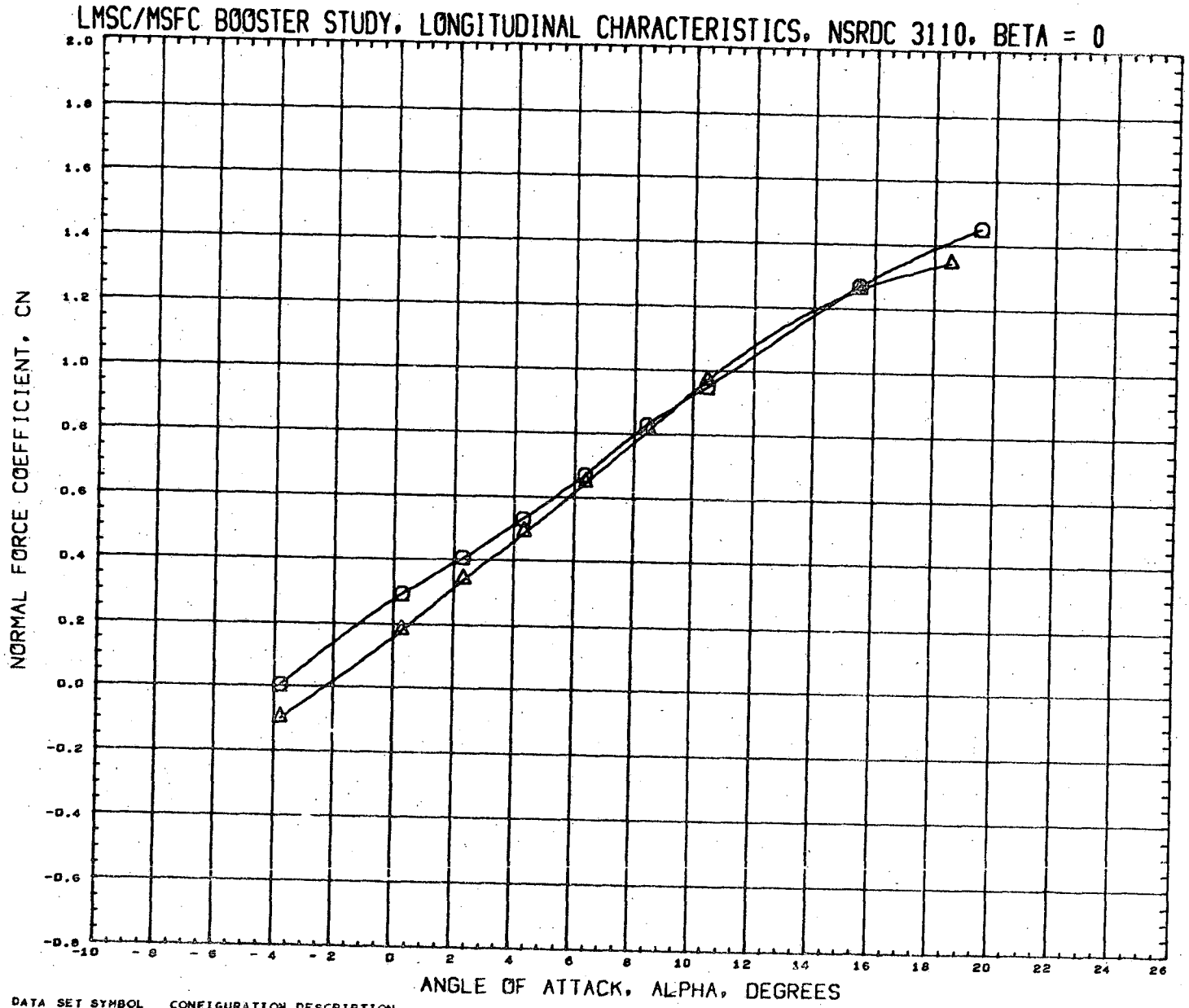
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2014)	O	NSRDC-3110,NSFC/LMSC BOOSTER B1C2F1W1V1
(RN2030)	Δ	NSRDC-3110,NSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

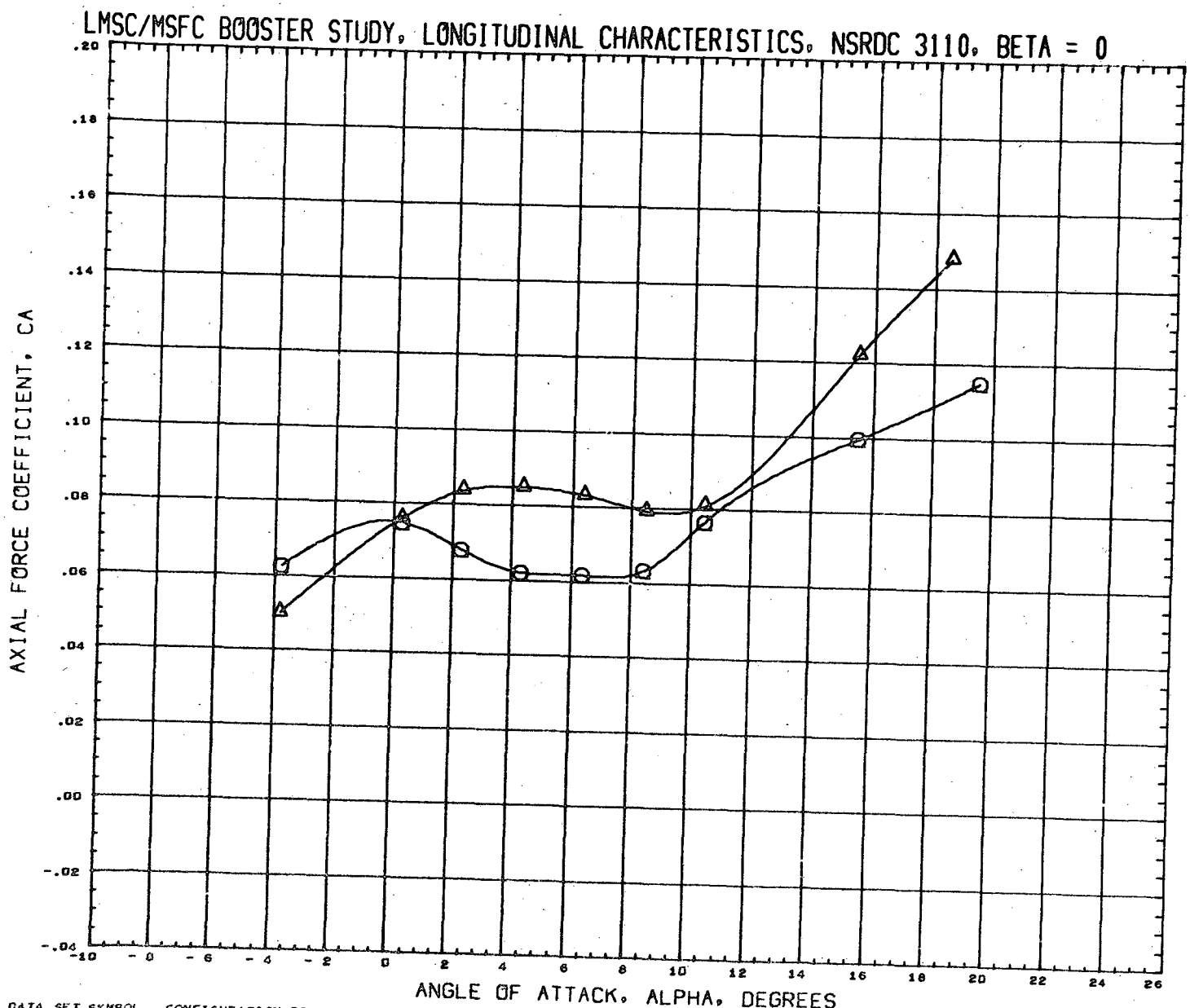
MACH 0.381



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2229)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2245)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

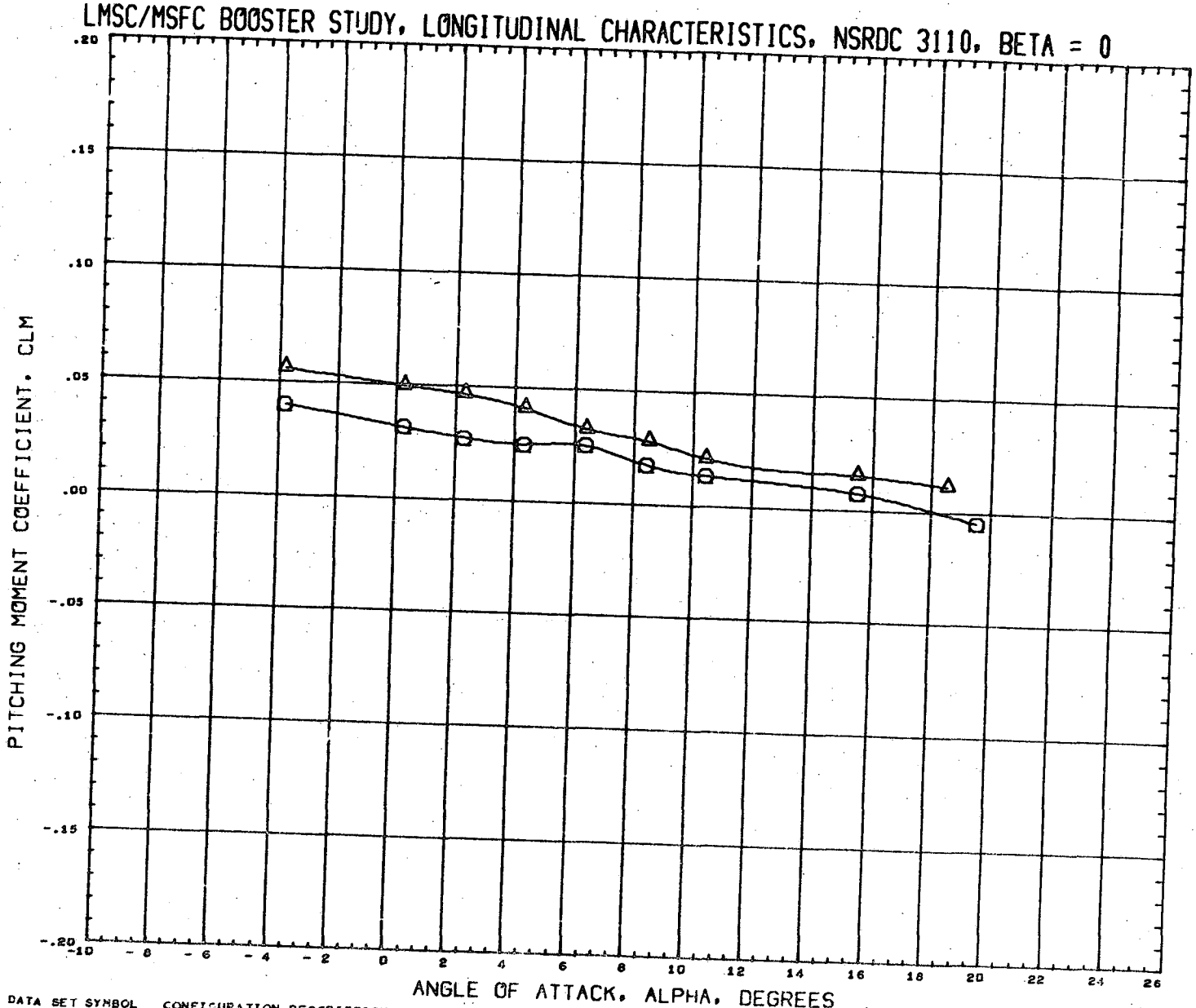


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2229)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2245)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

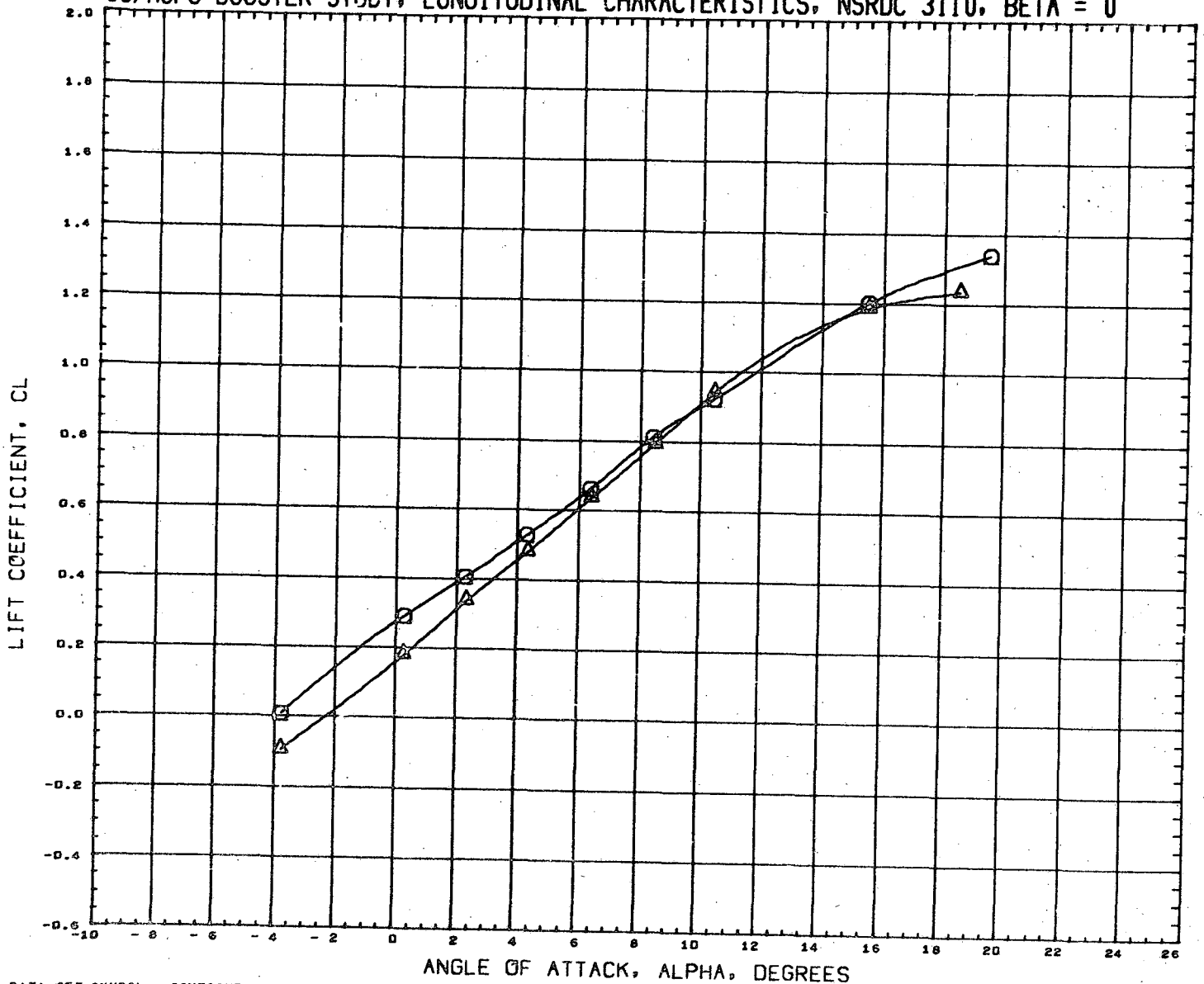


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2229)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2245)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

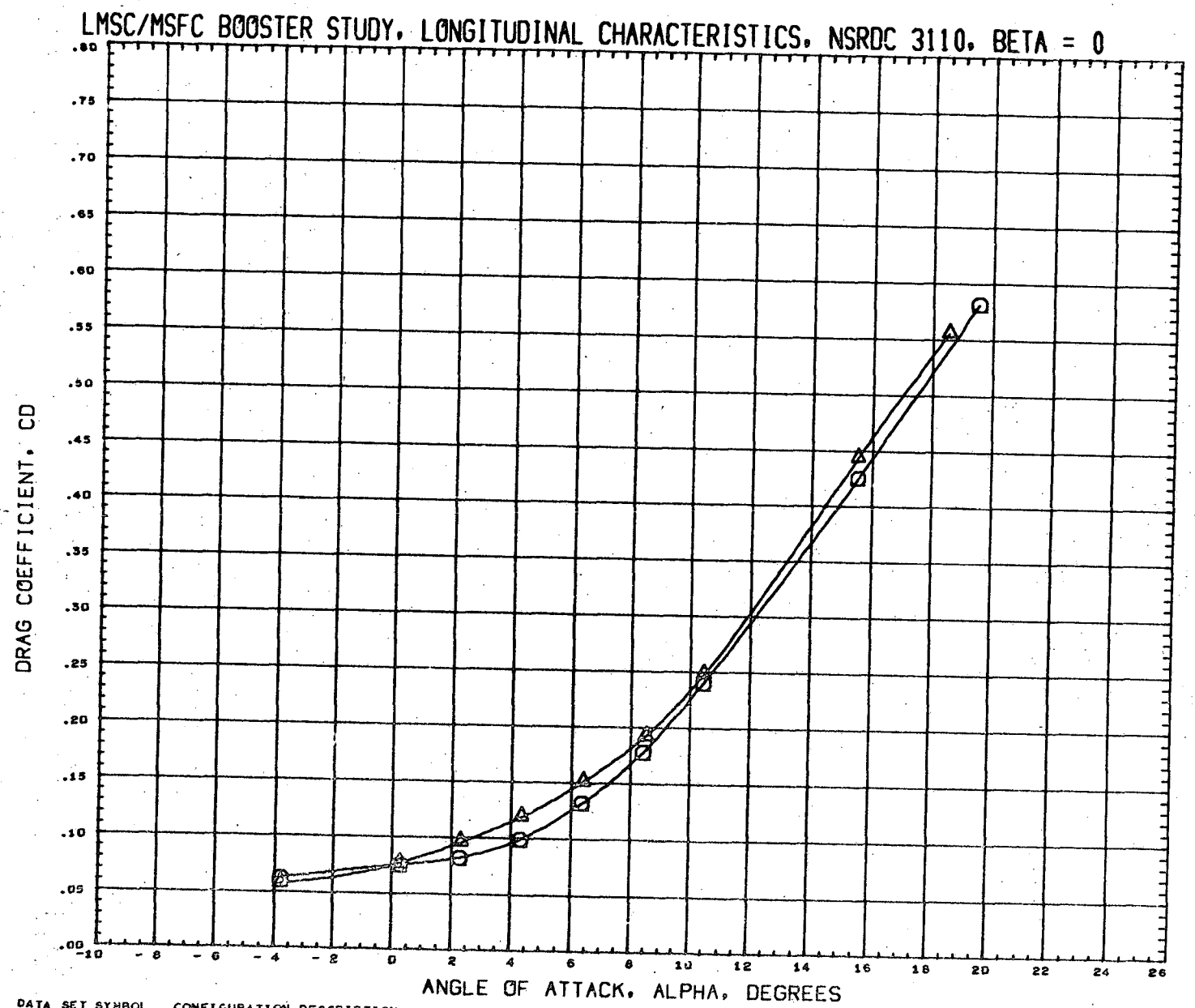
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2229) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2245) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.380

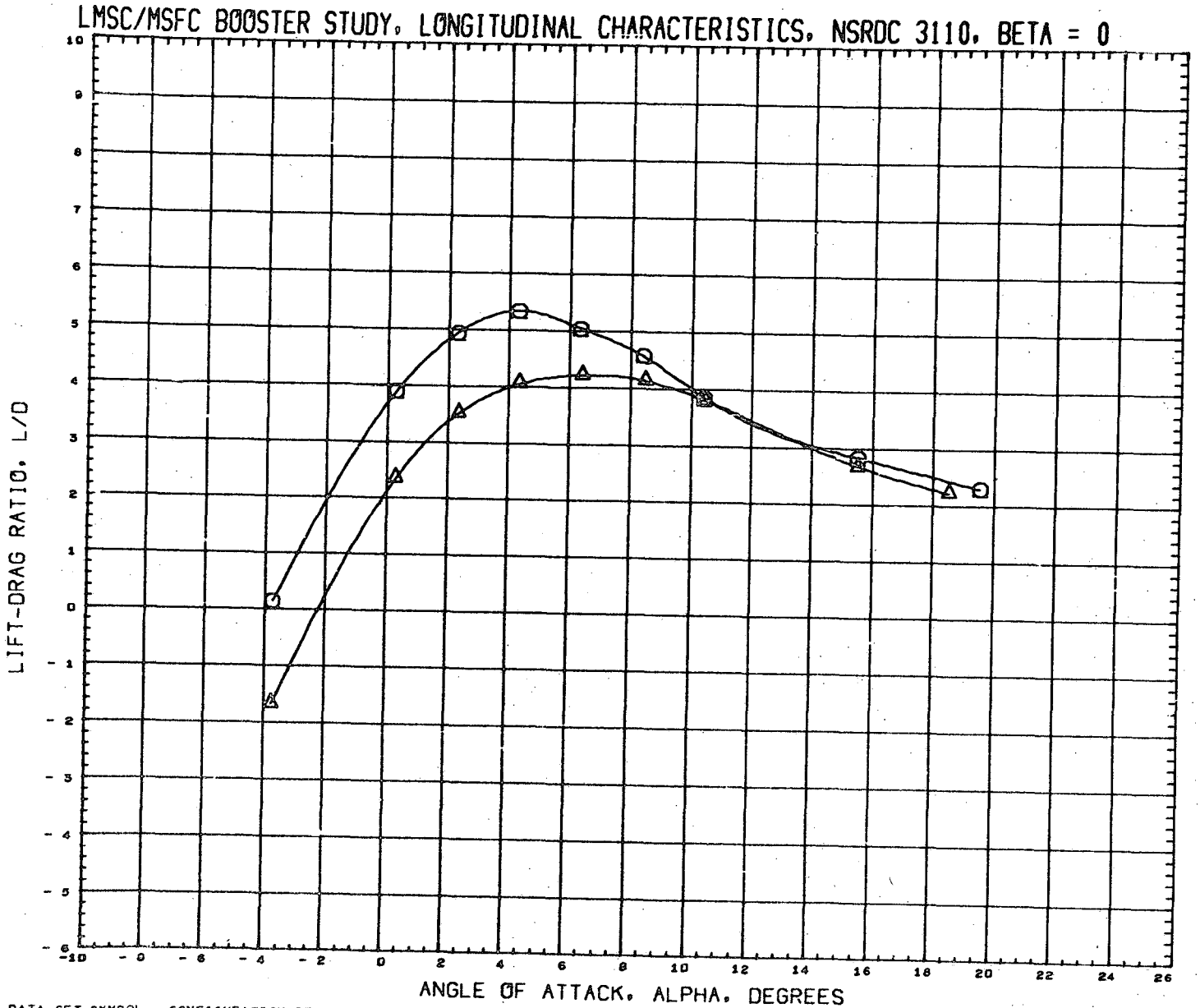
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2229)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2245)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2229)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2245)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000

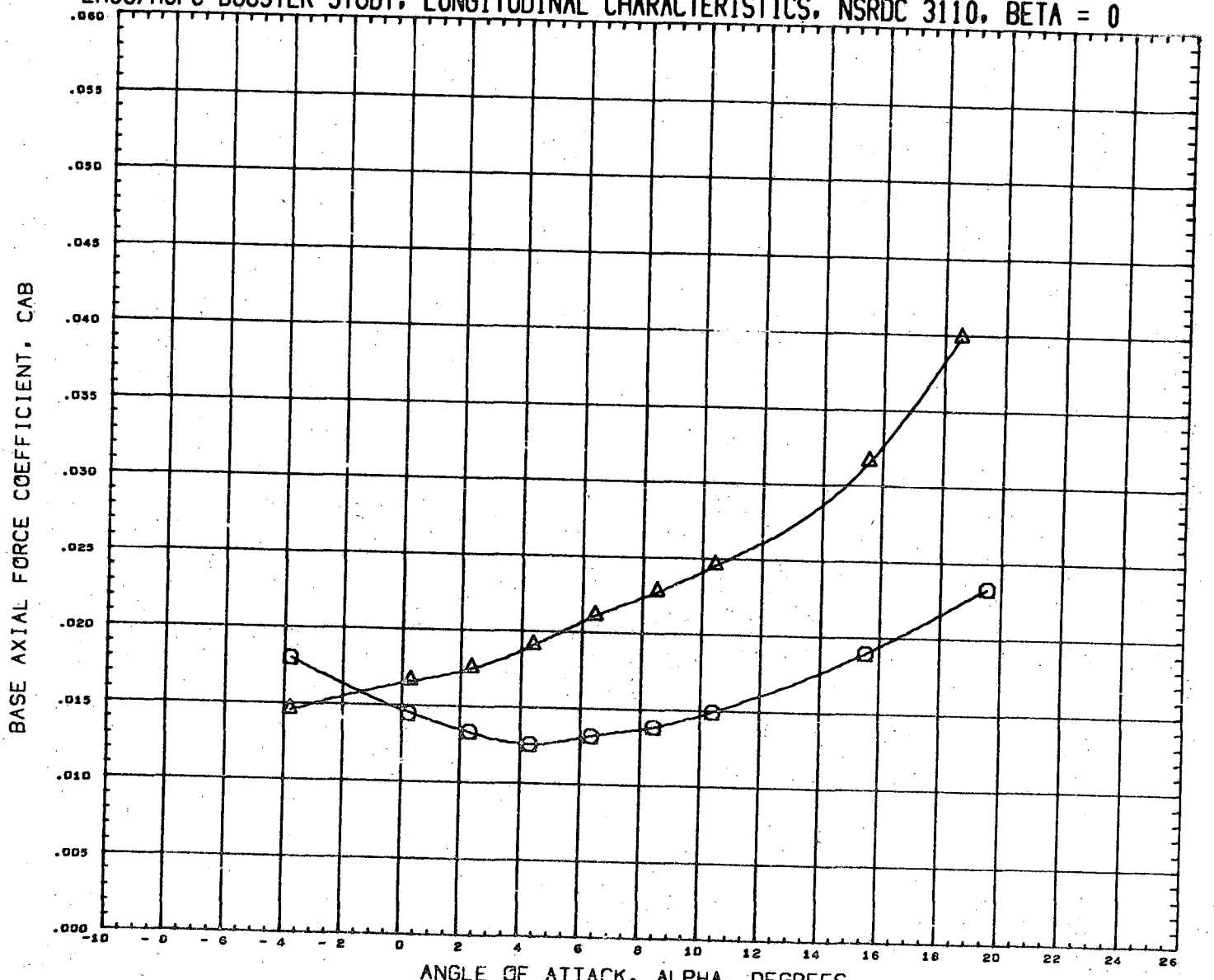
MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

12(A)

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

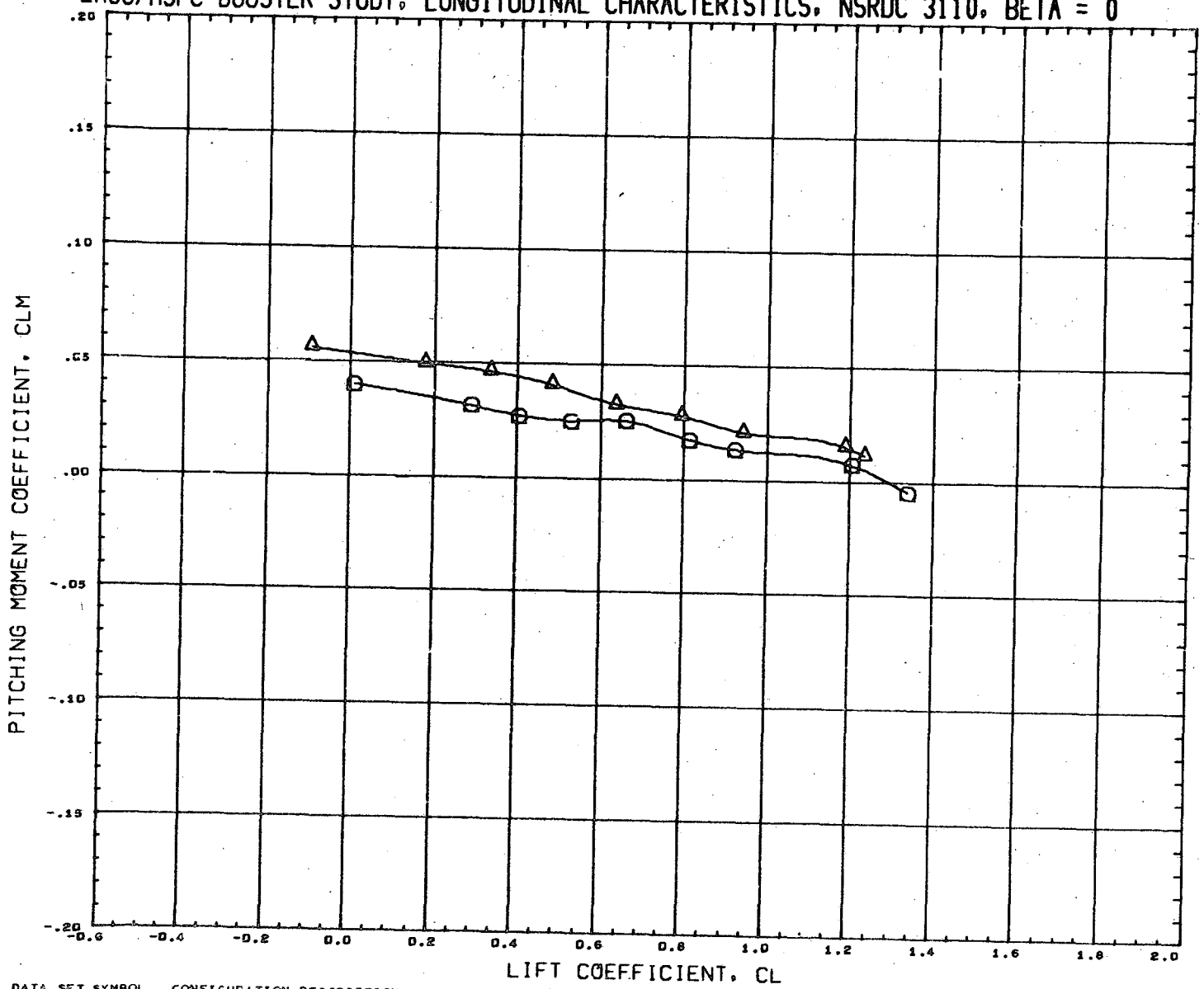


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2229)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2245)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

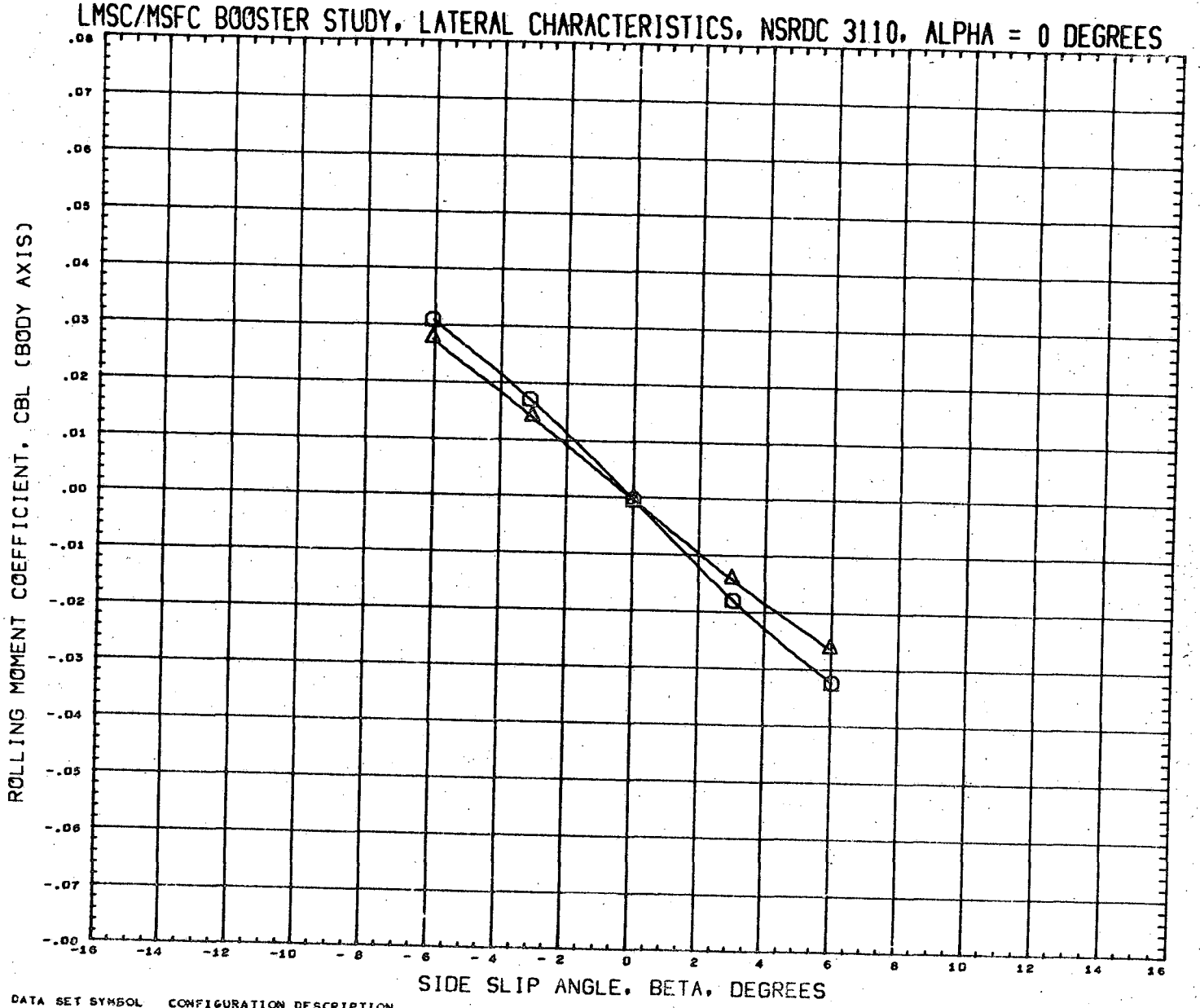
LMSC/MSFC BØØSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2229)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2245)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

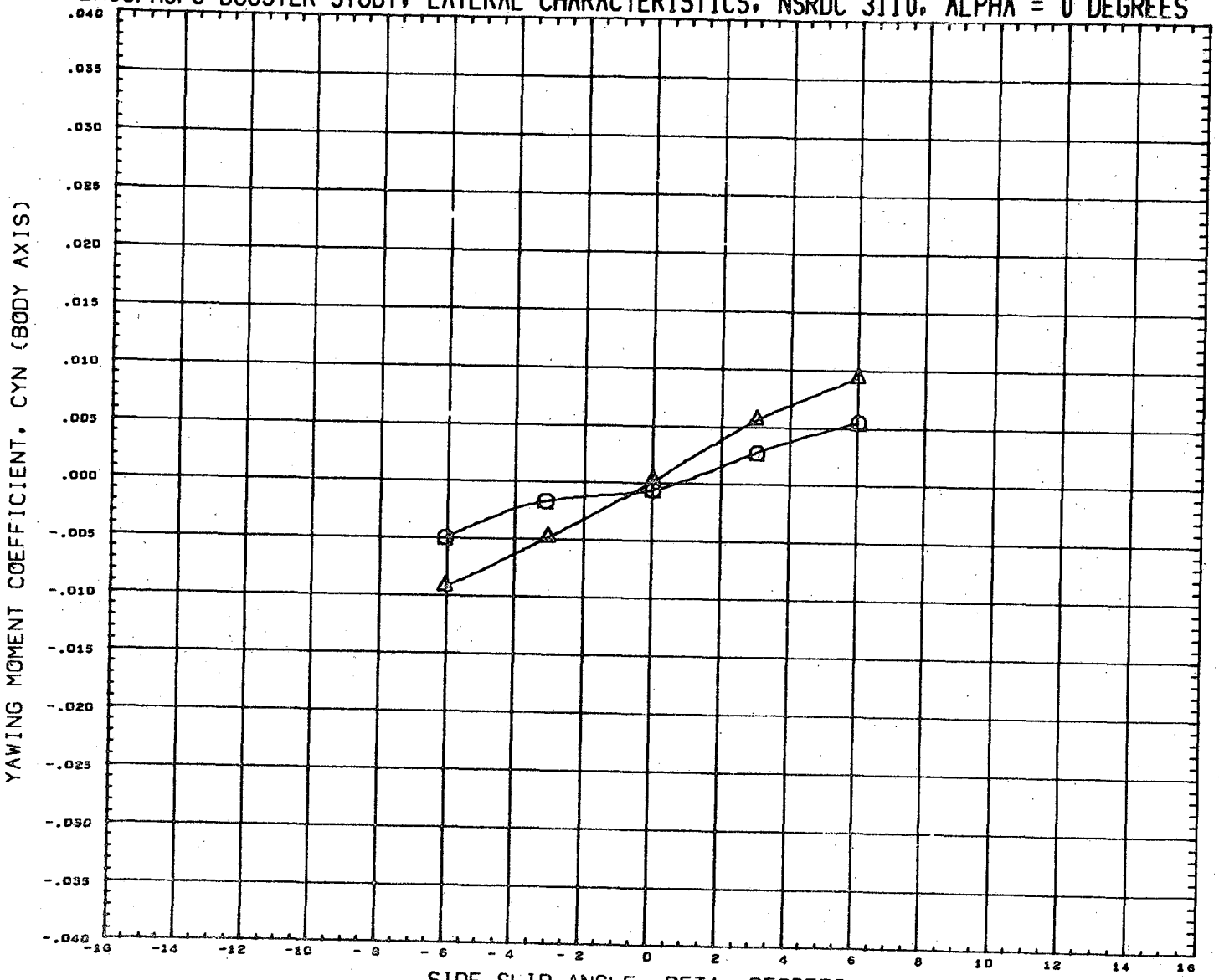


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2230)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2246)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.301

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

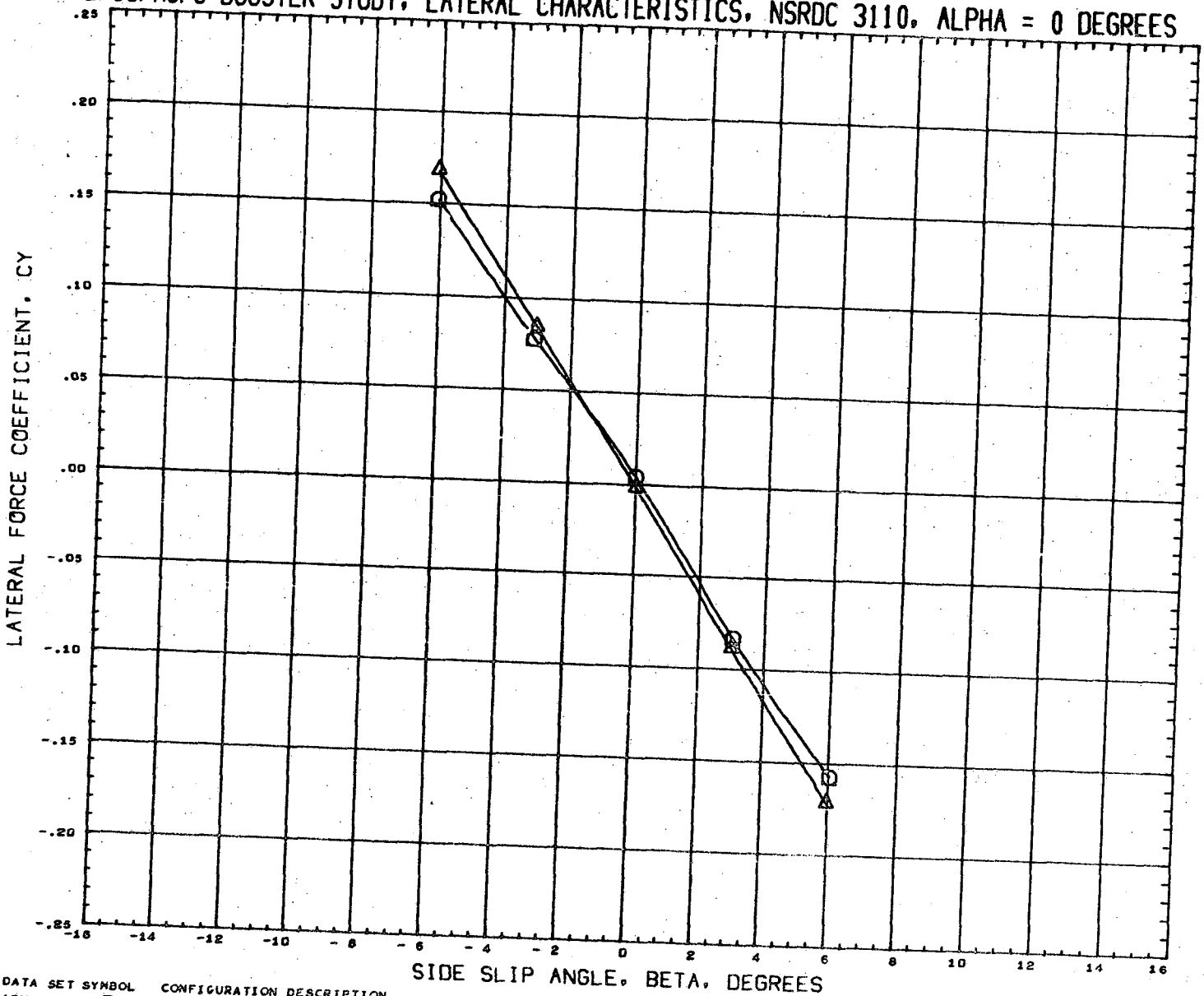


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS
(RN2230)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2246)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

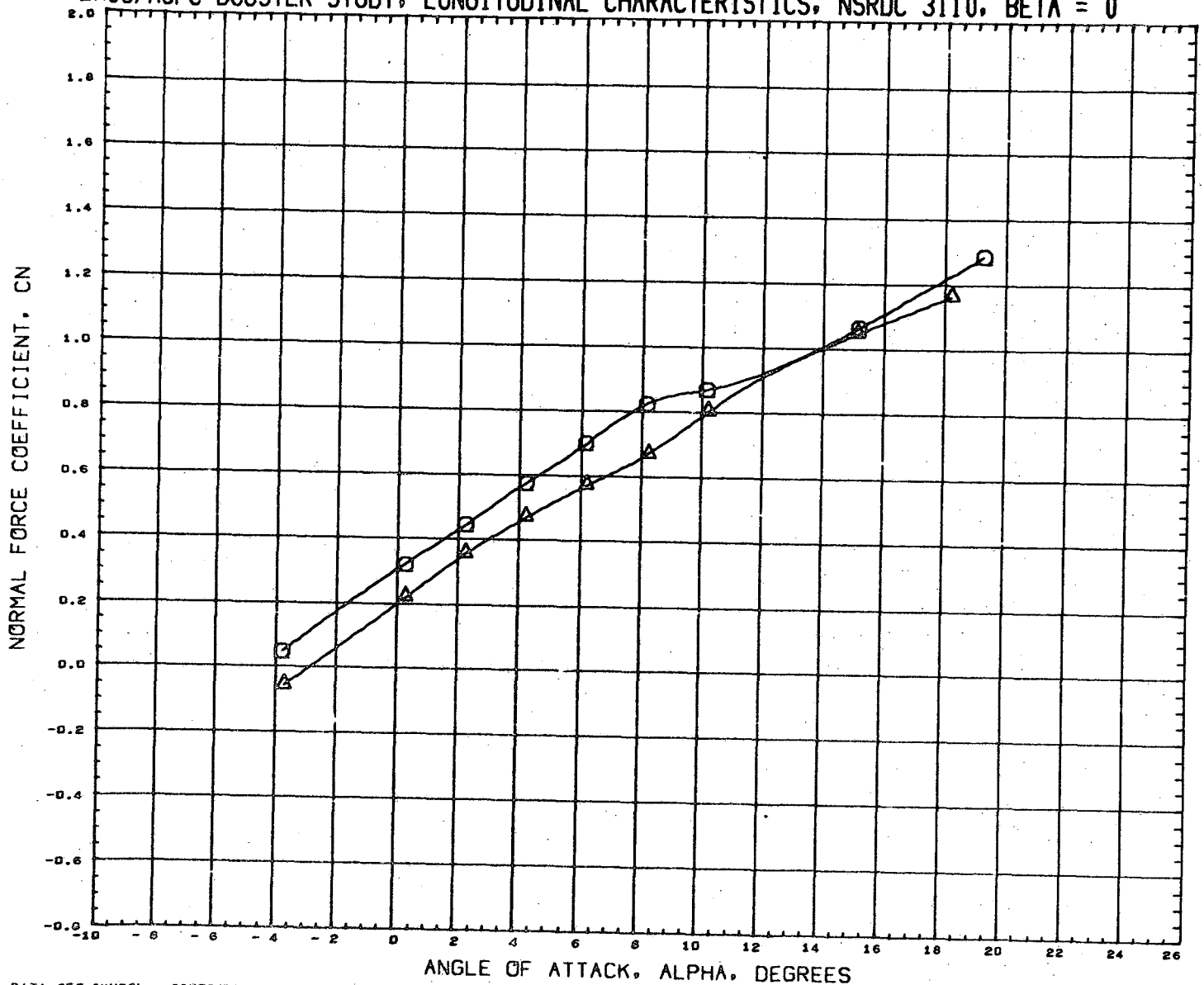


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2230)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000
(RN2246)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

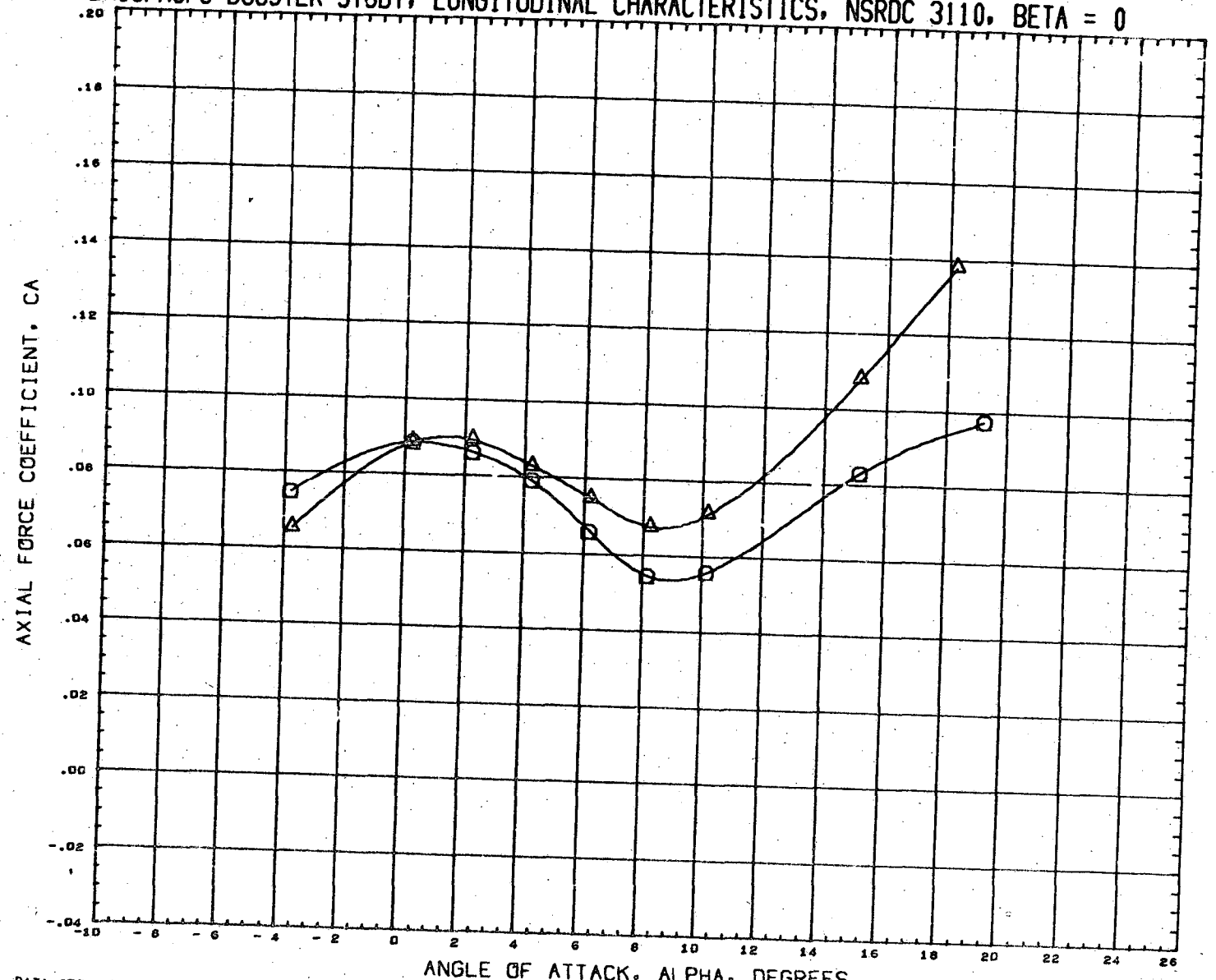


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2237)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2253)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.791

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

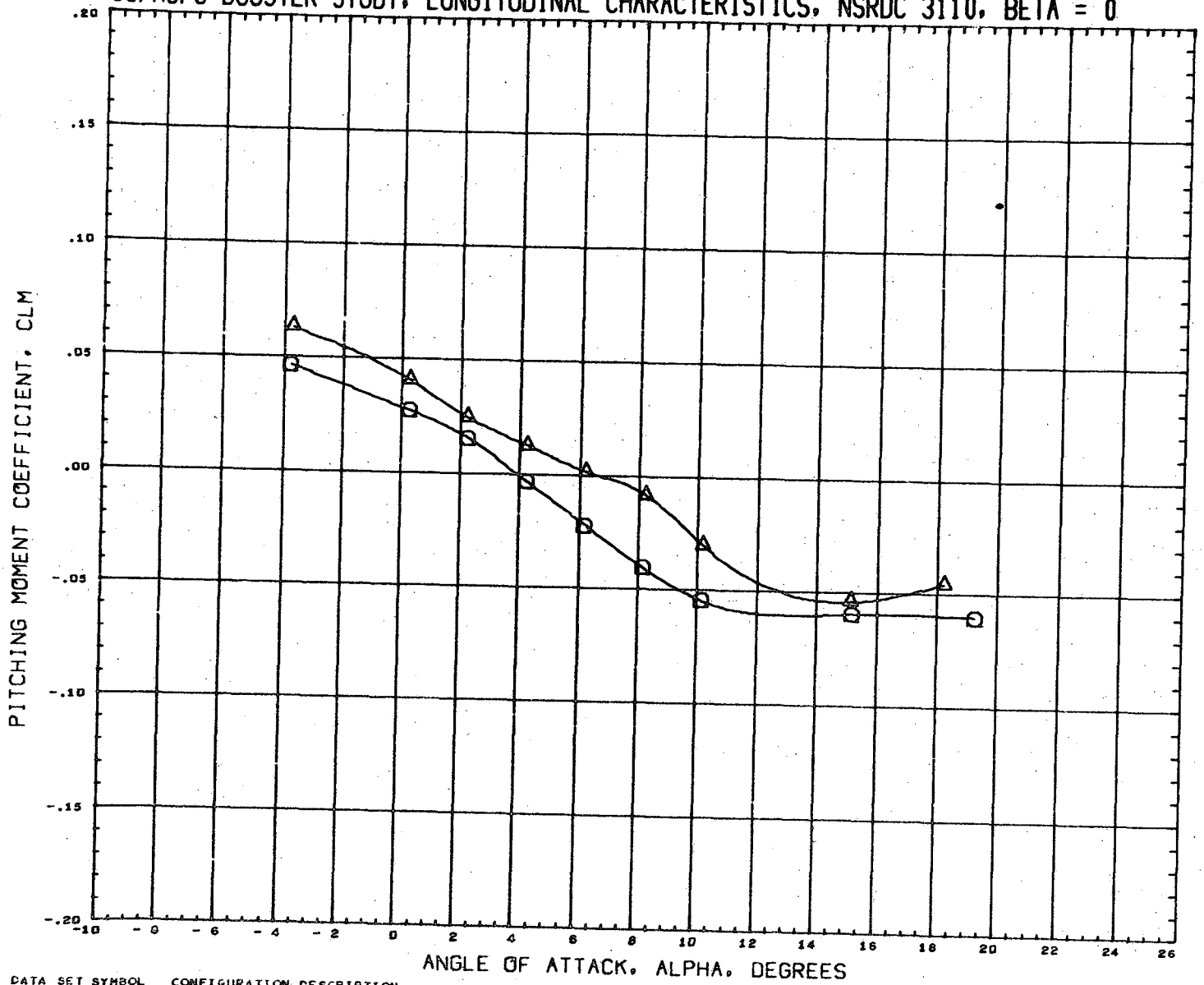


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2237)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2253)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

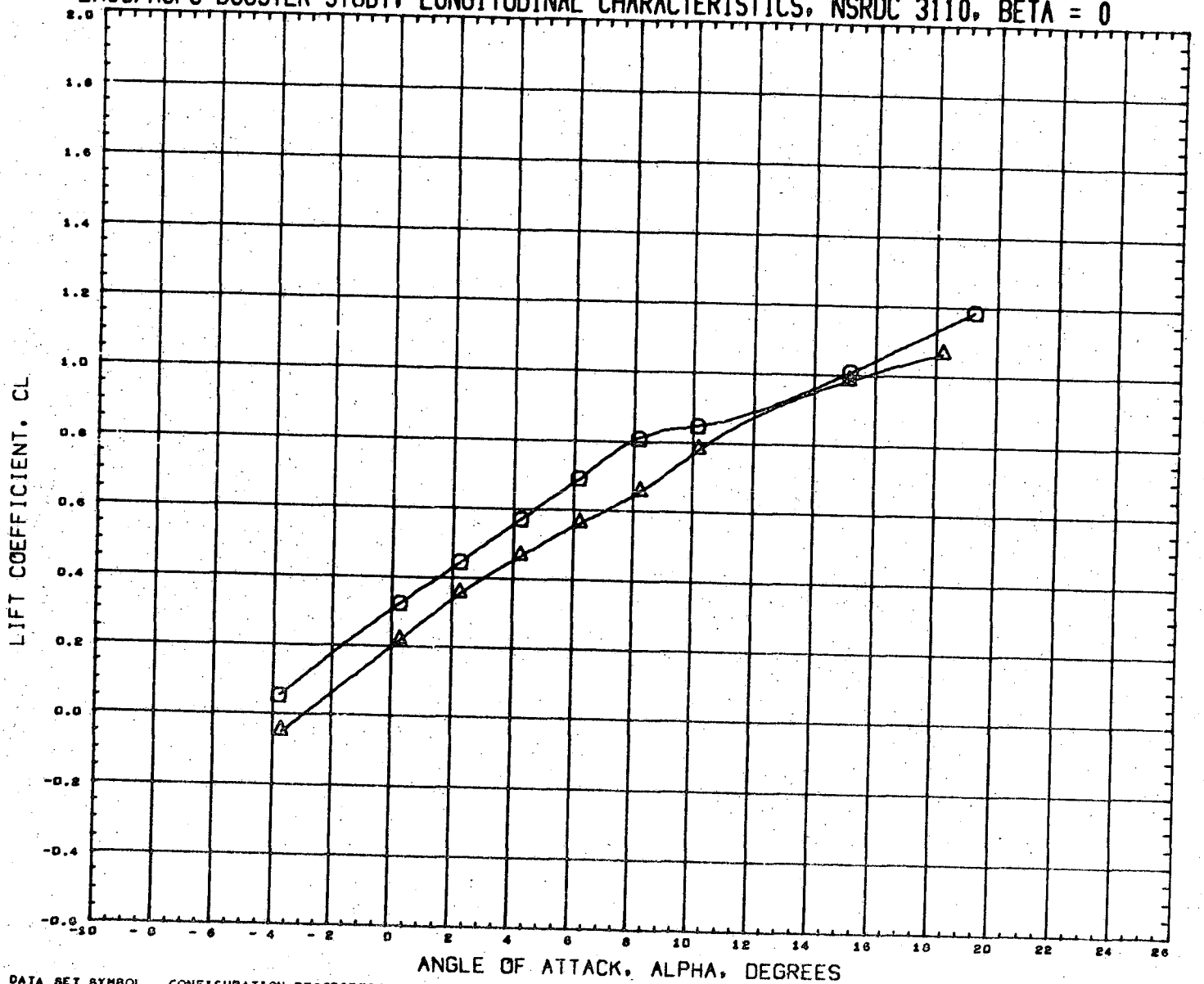


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2237)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2253)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

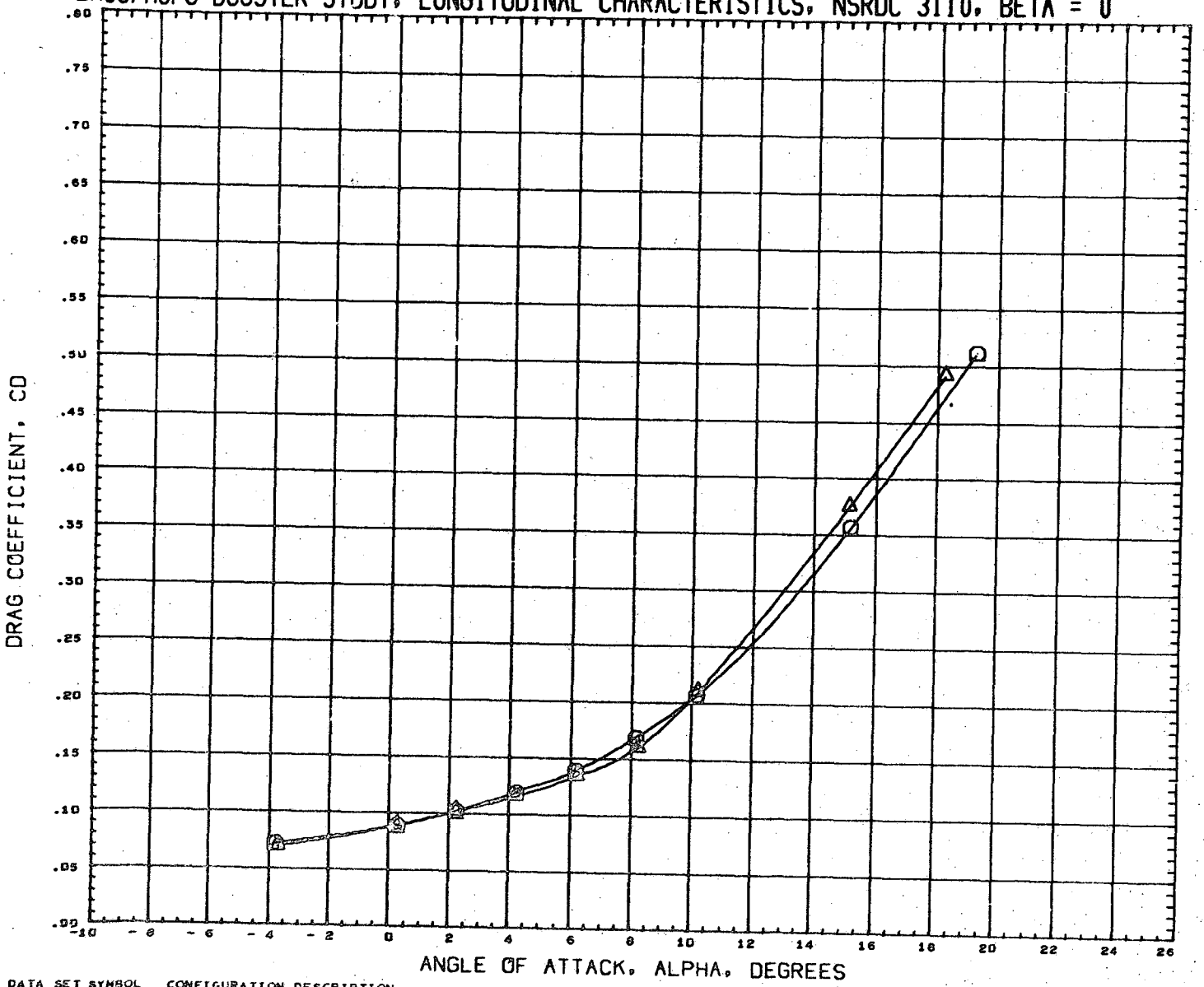


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2237)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2253)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

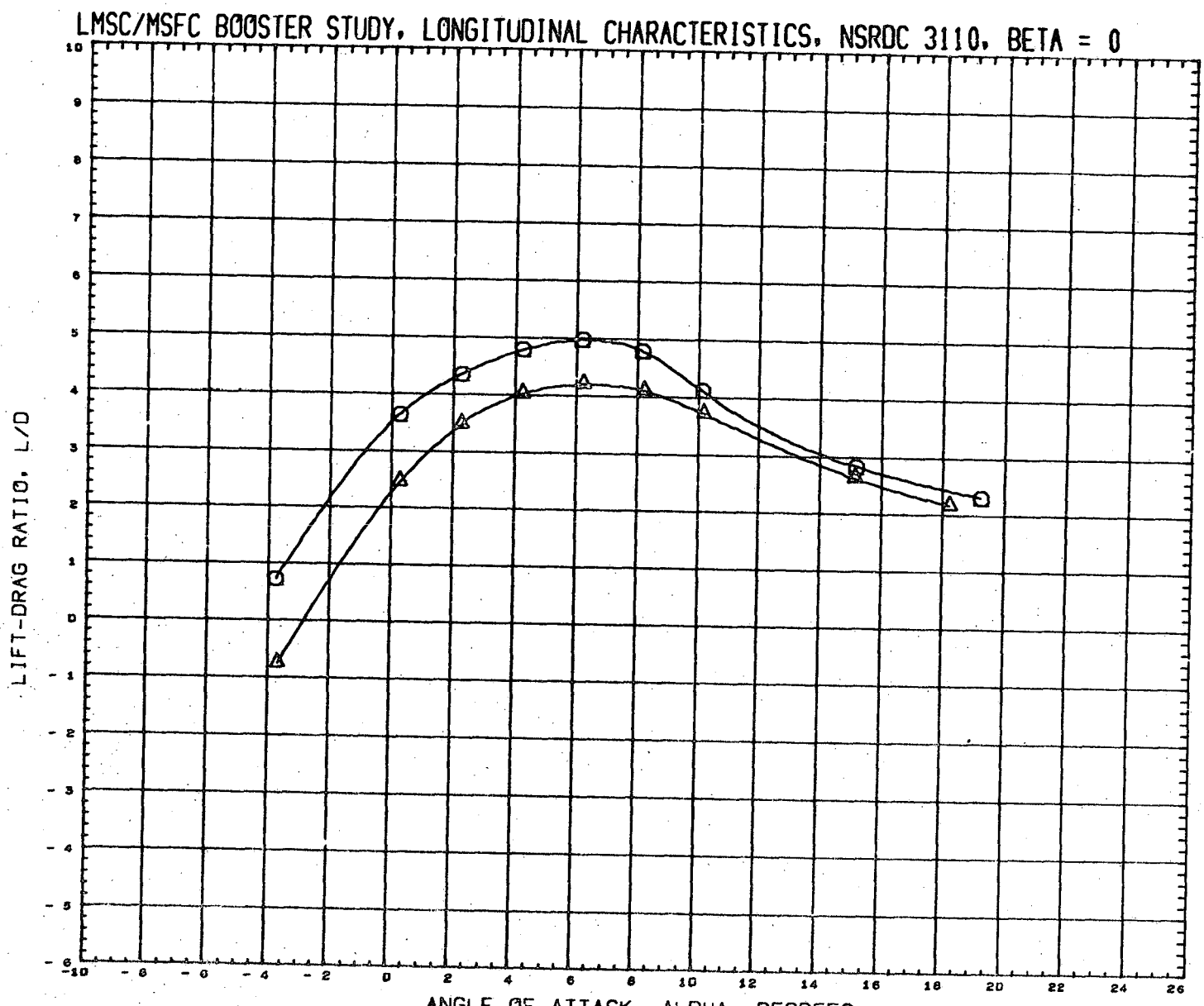
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2237)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2253)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

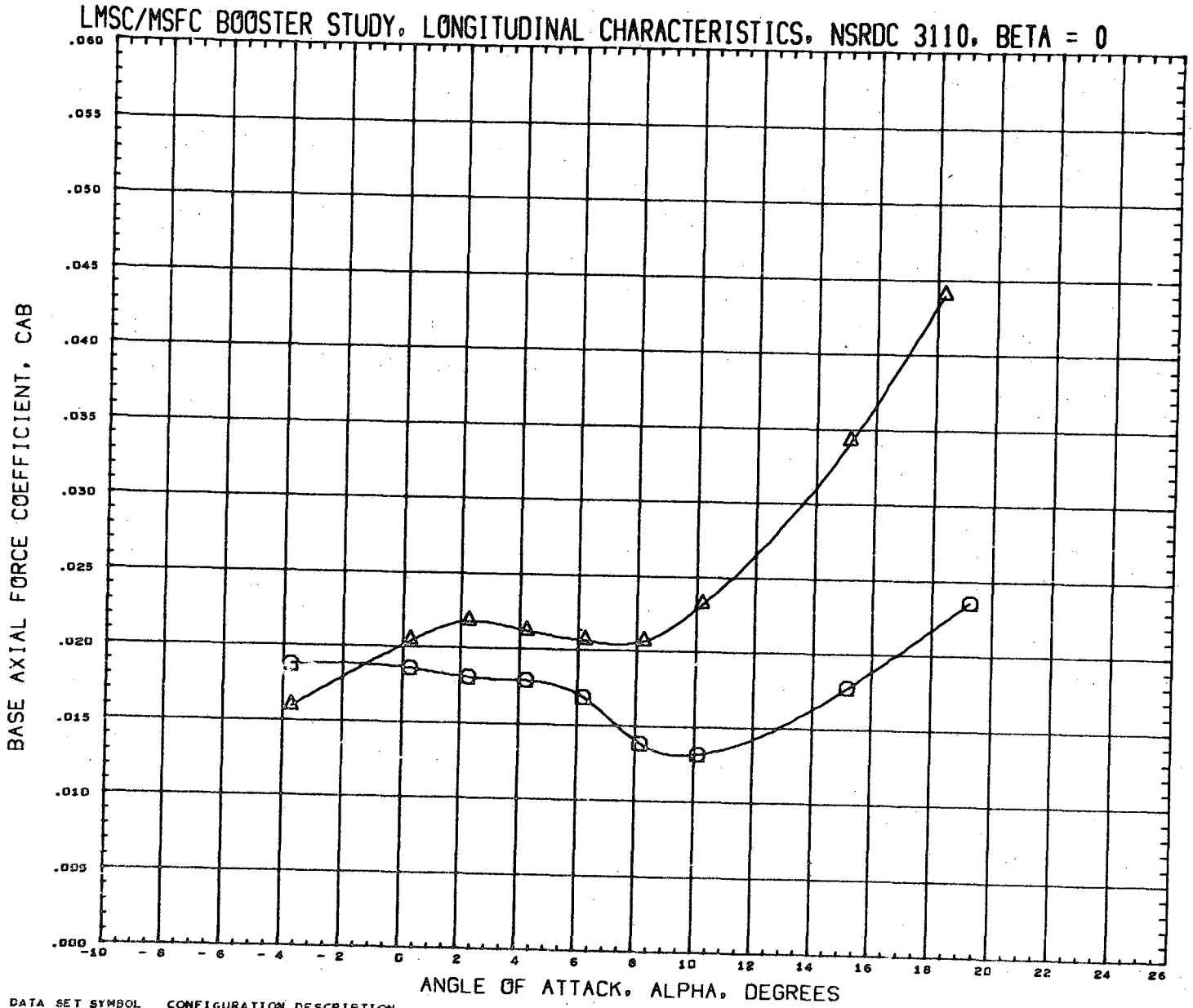
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2237)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2255)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.301

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

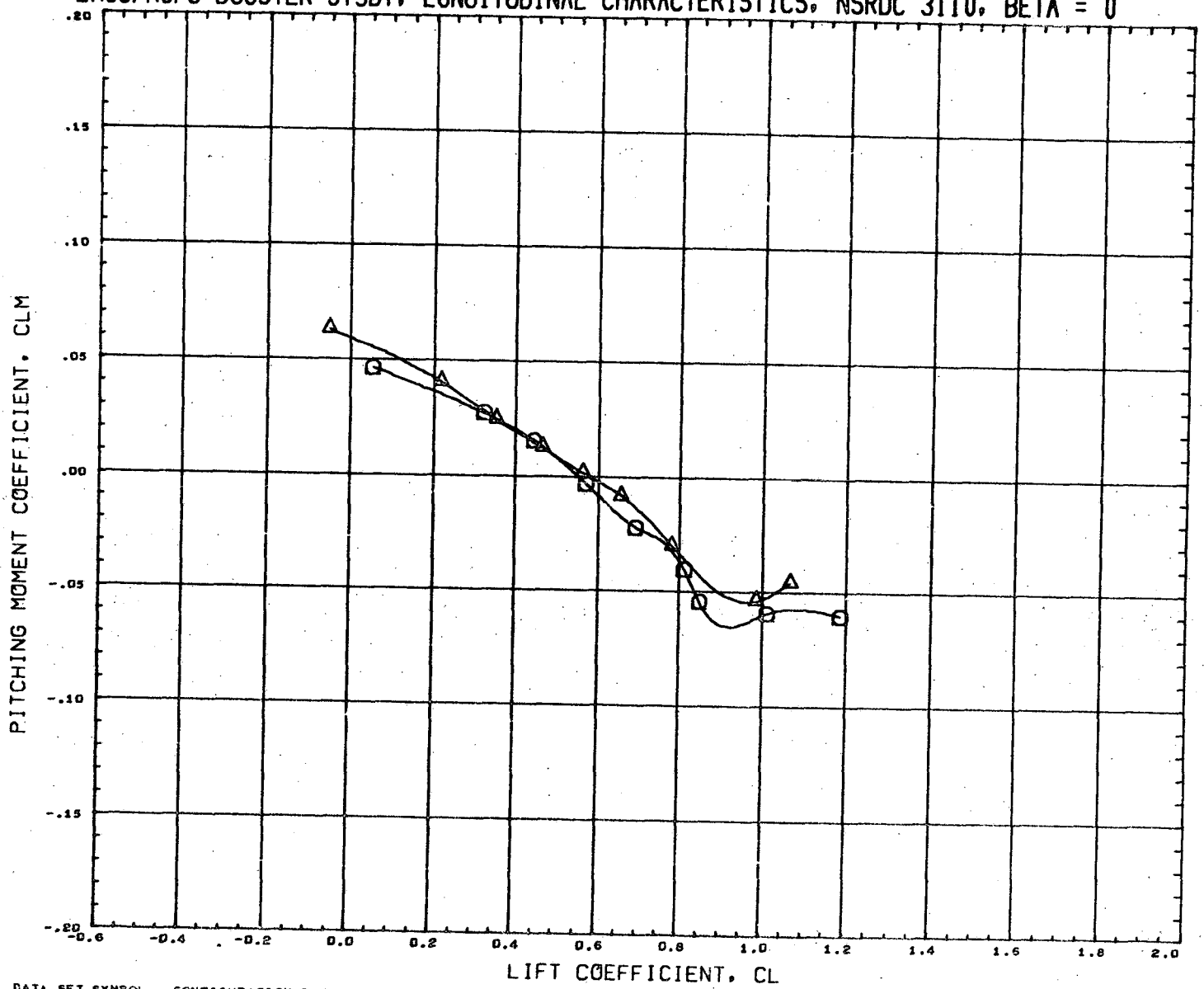


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2237)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2253)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

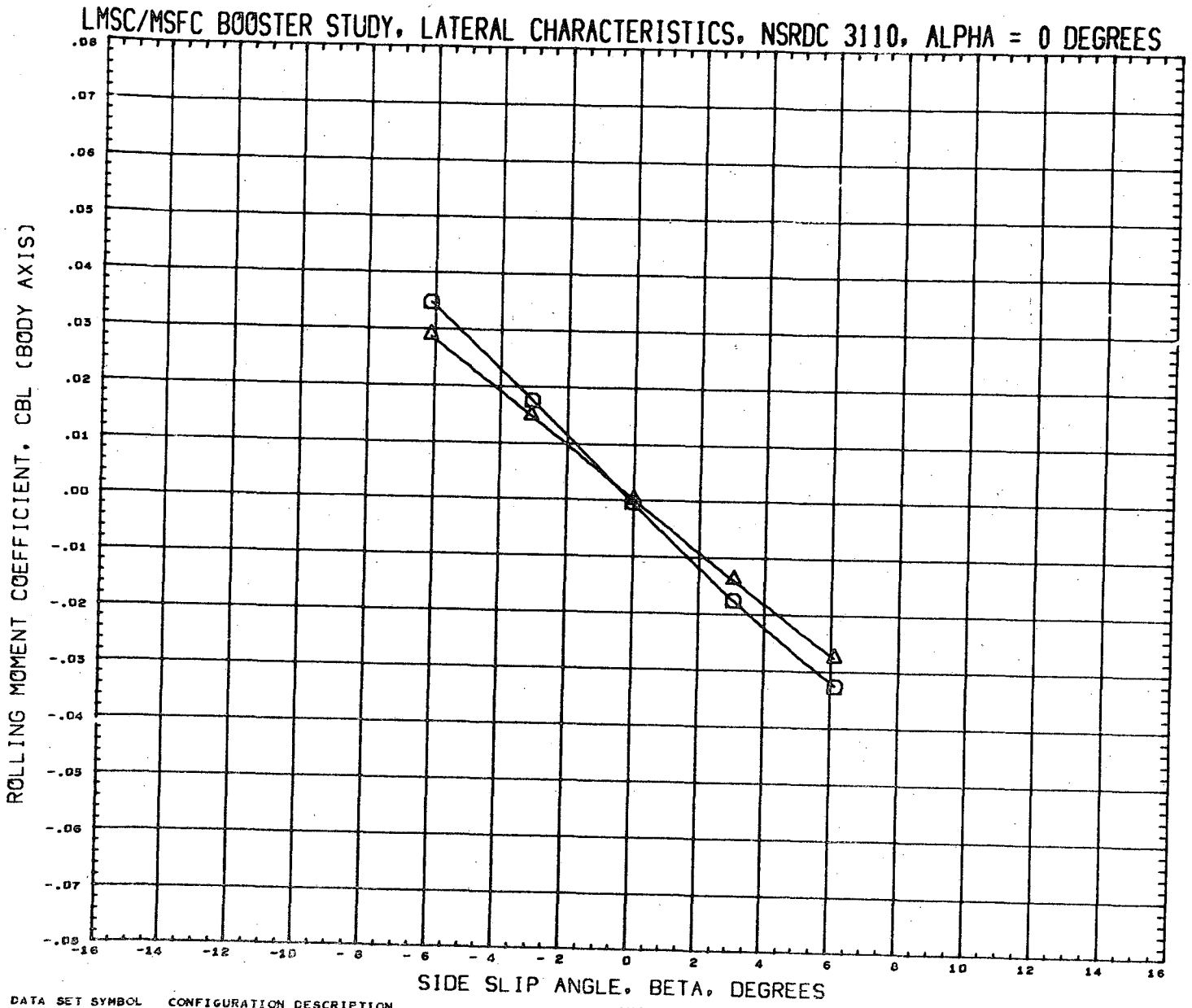
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2237)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2253)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

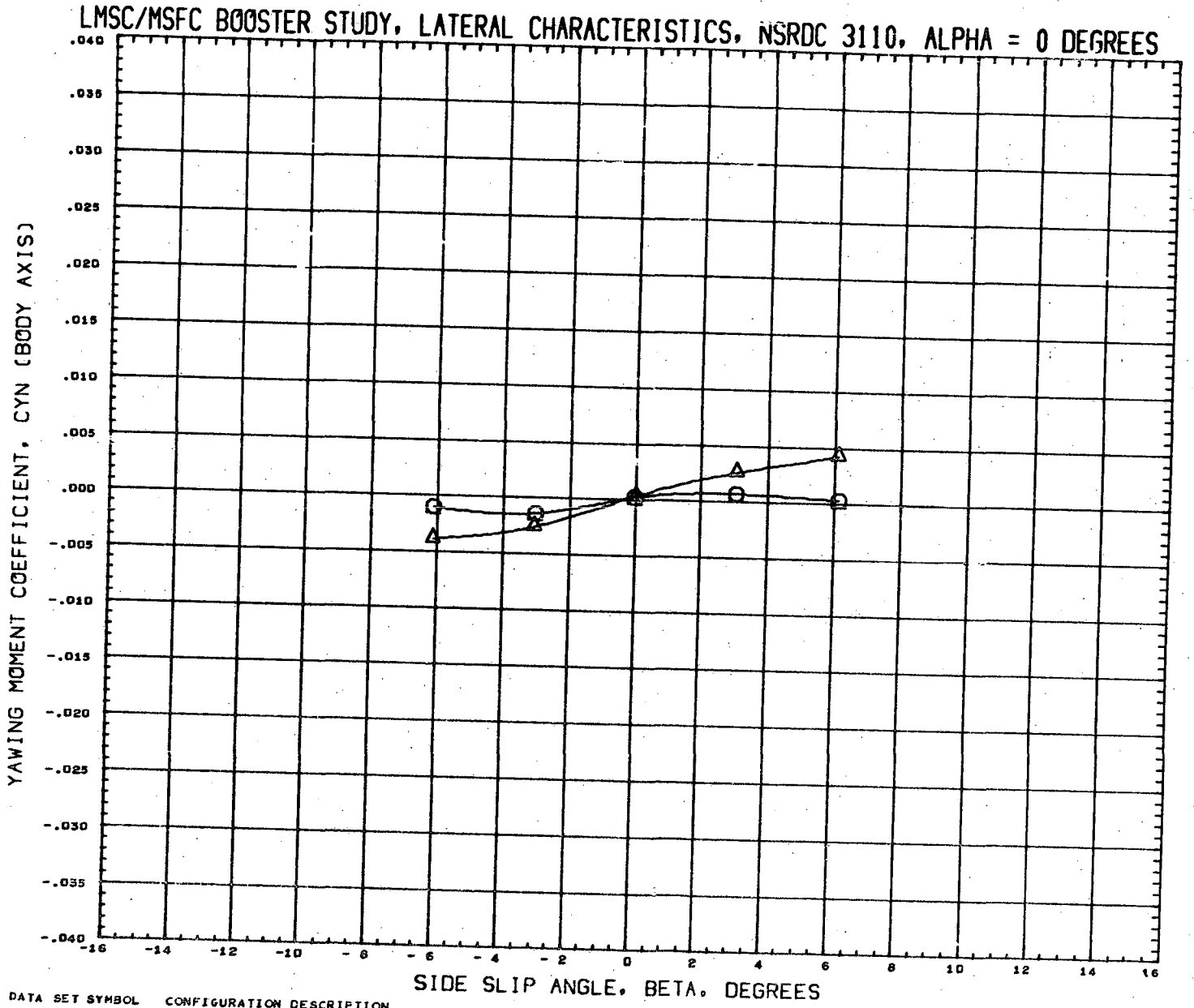
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2238)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2254)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

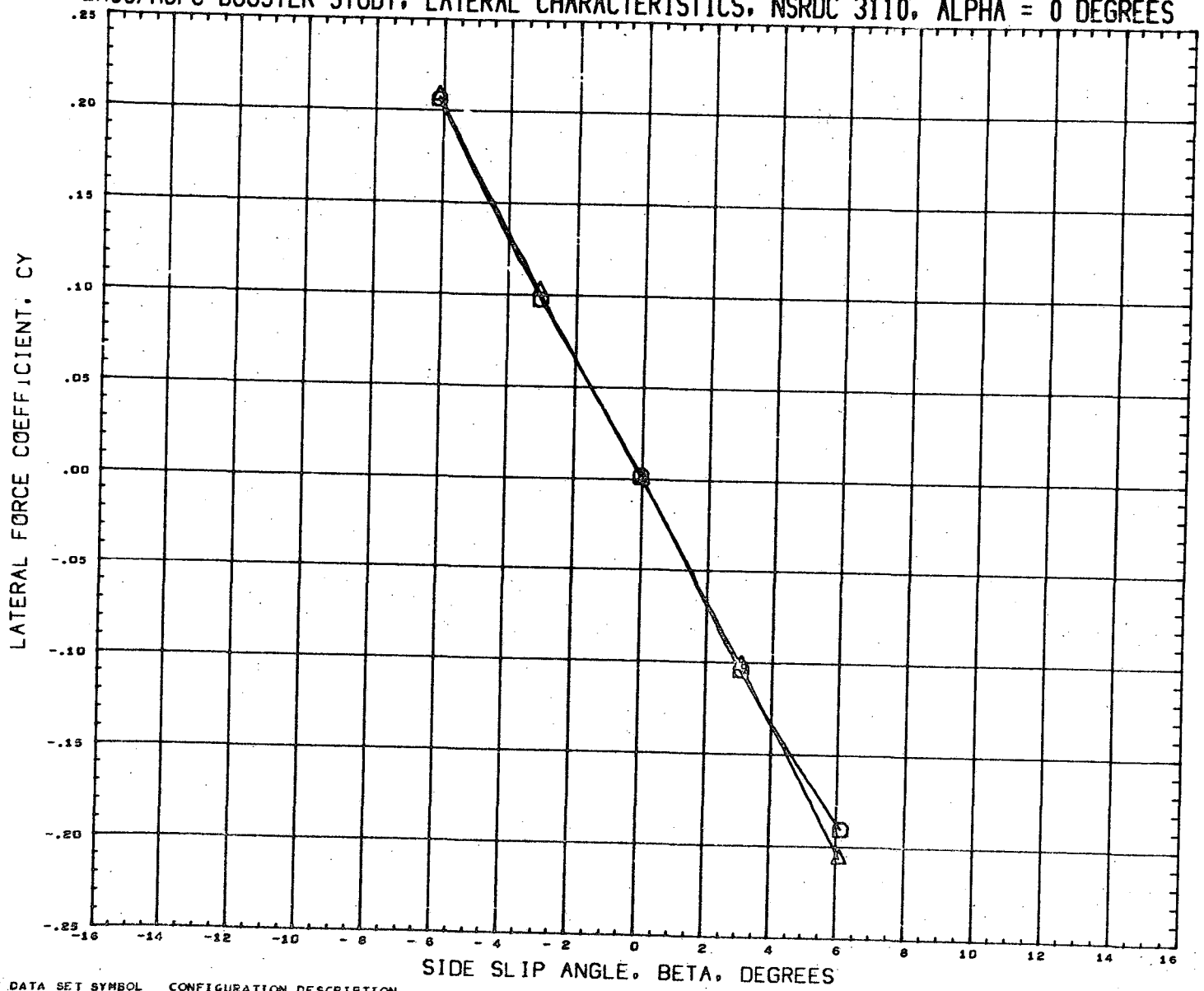


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2238)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2254)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.301

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

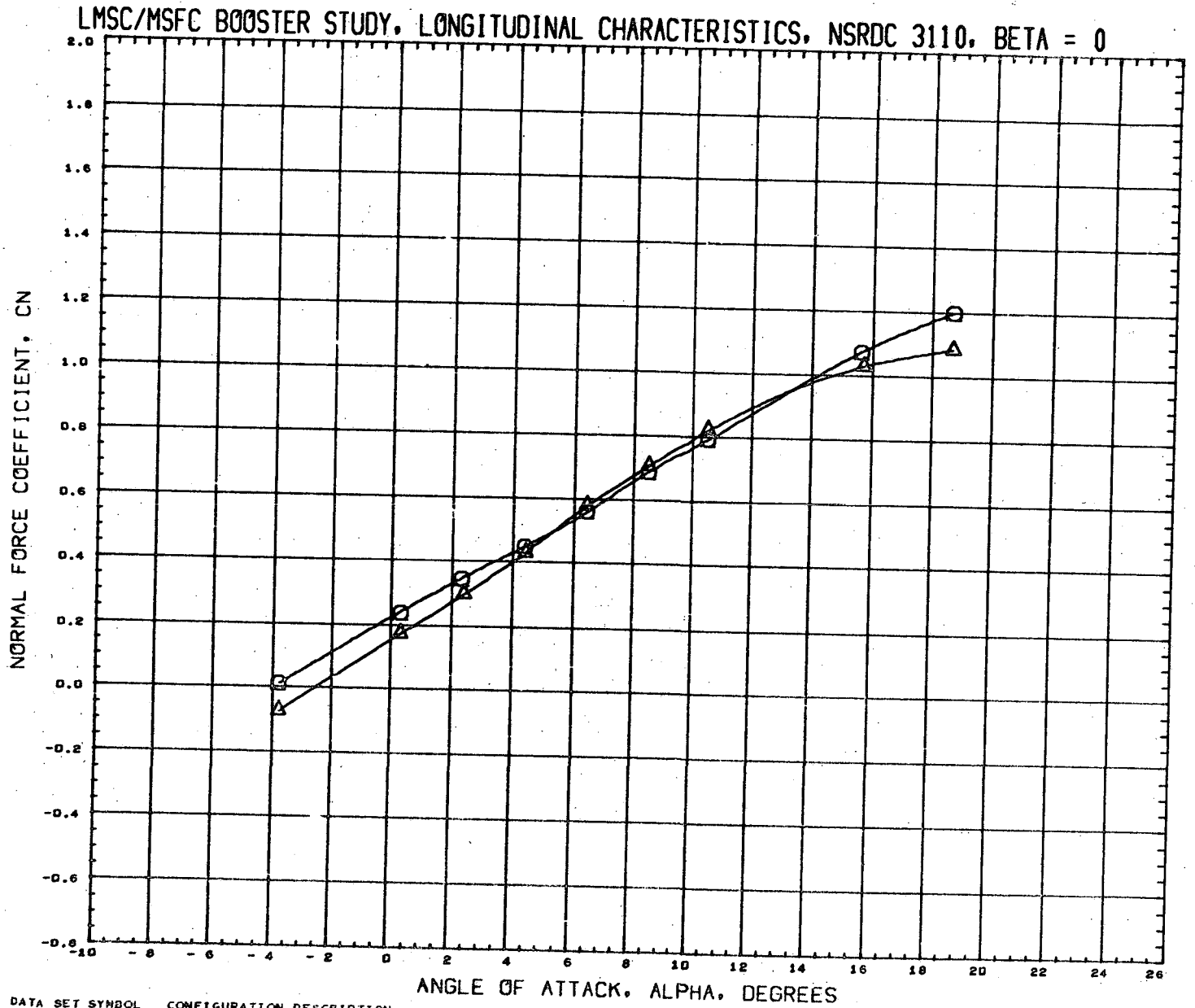


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2238)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000
(RN2254)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.361

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

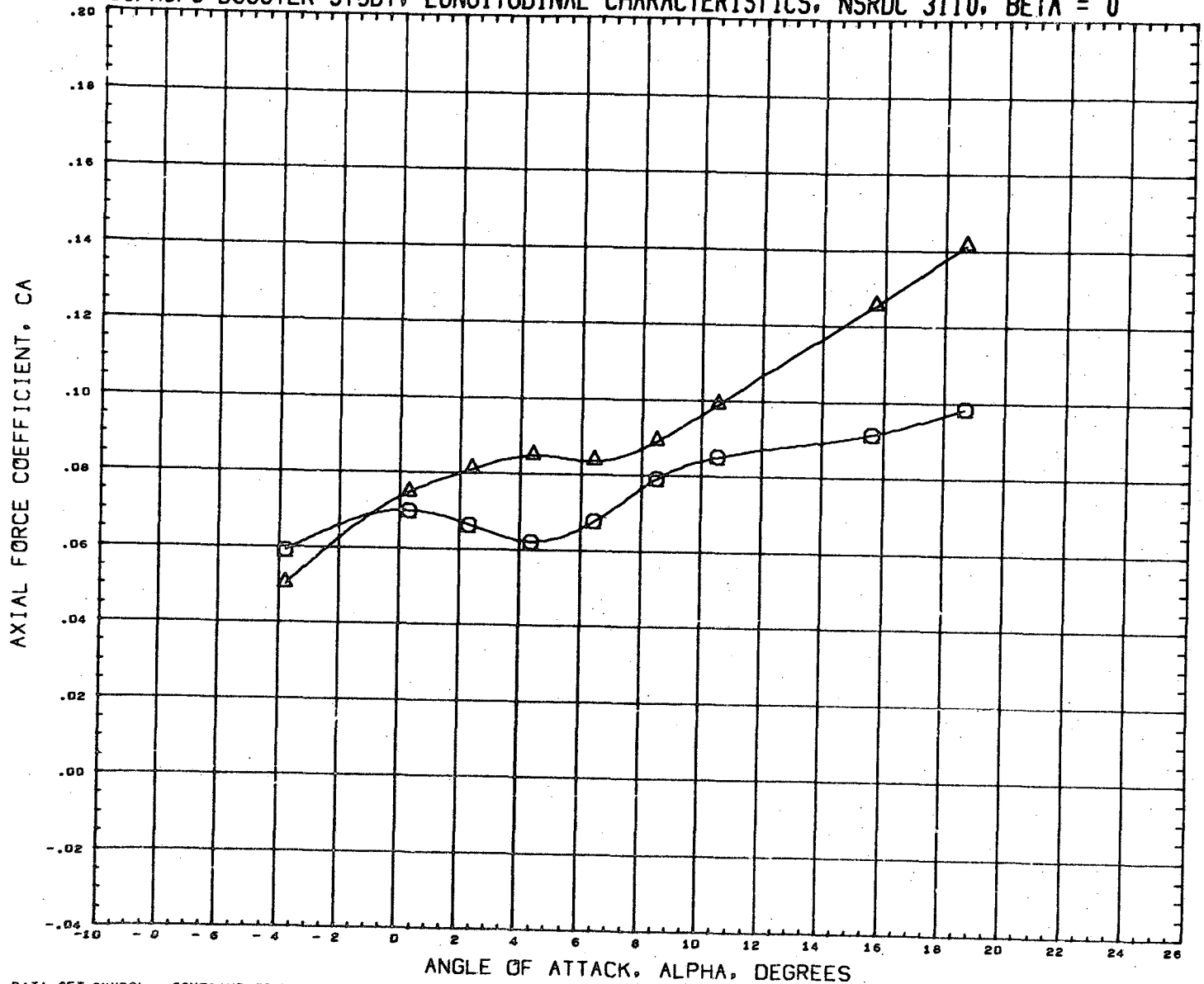


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2289)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000
(RN2305)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

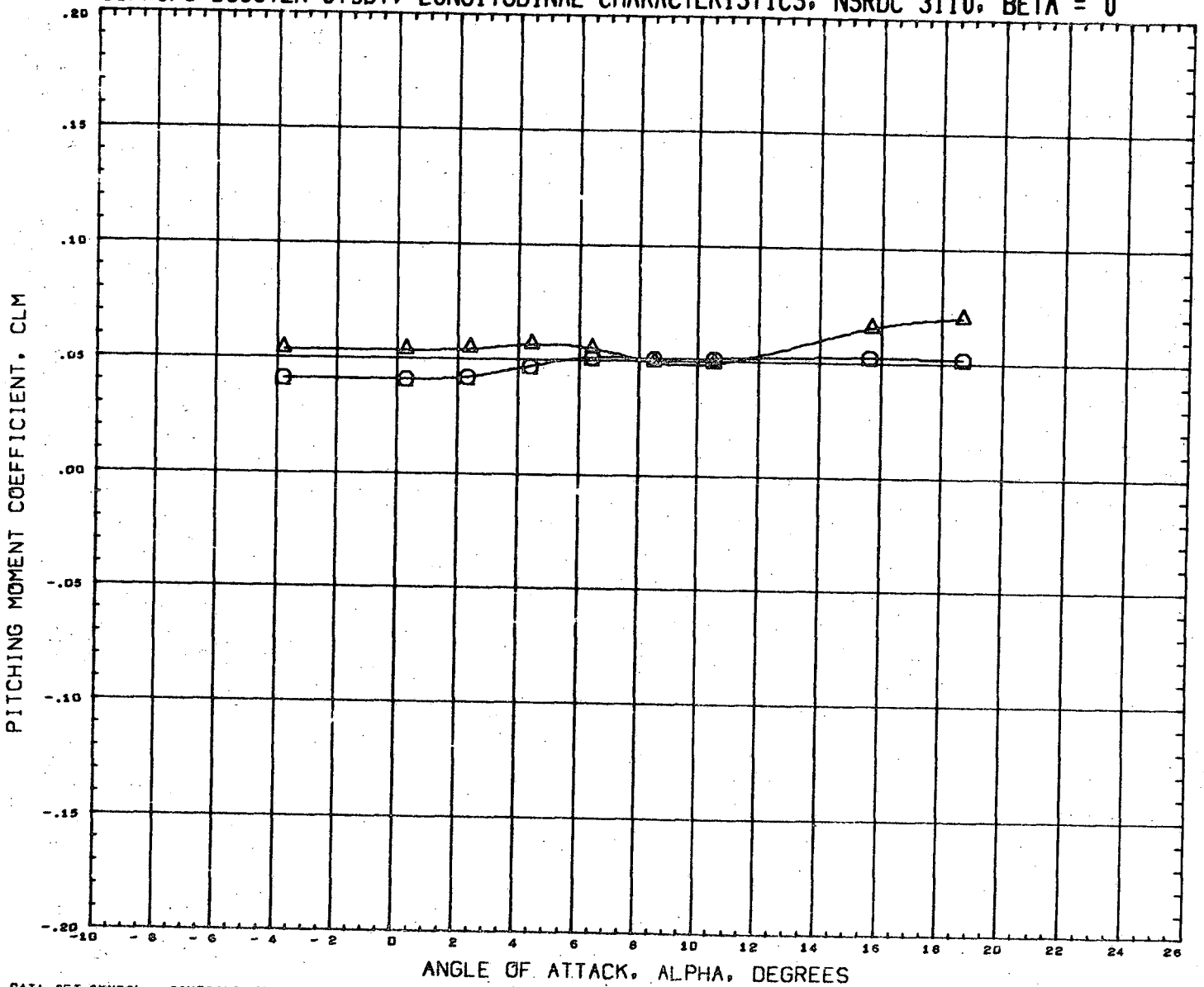


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2289)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000
(RN2305)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

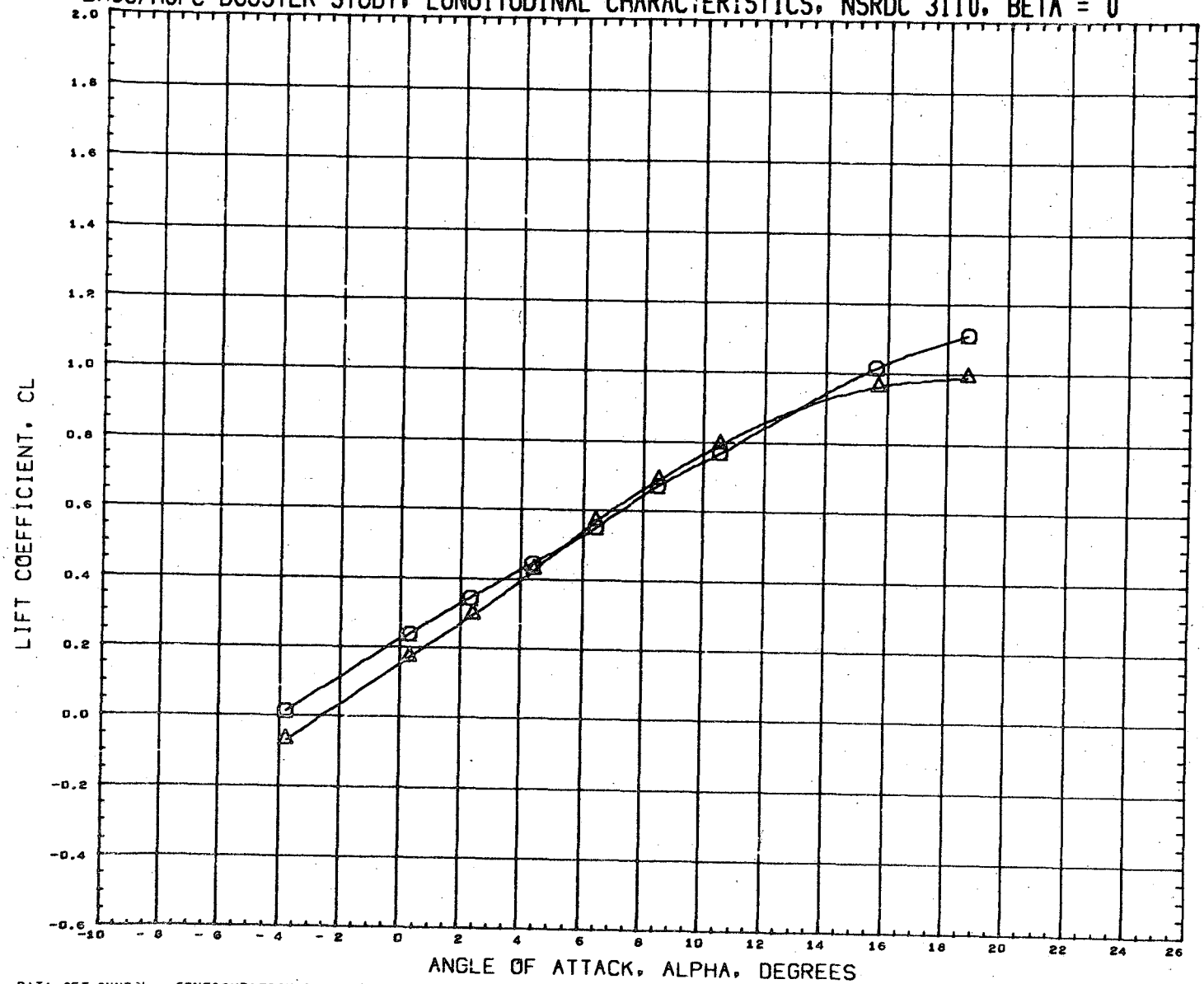


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2289)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000
(RN2305)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

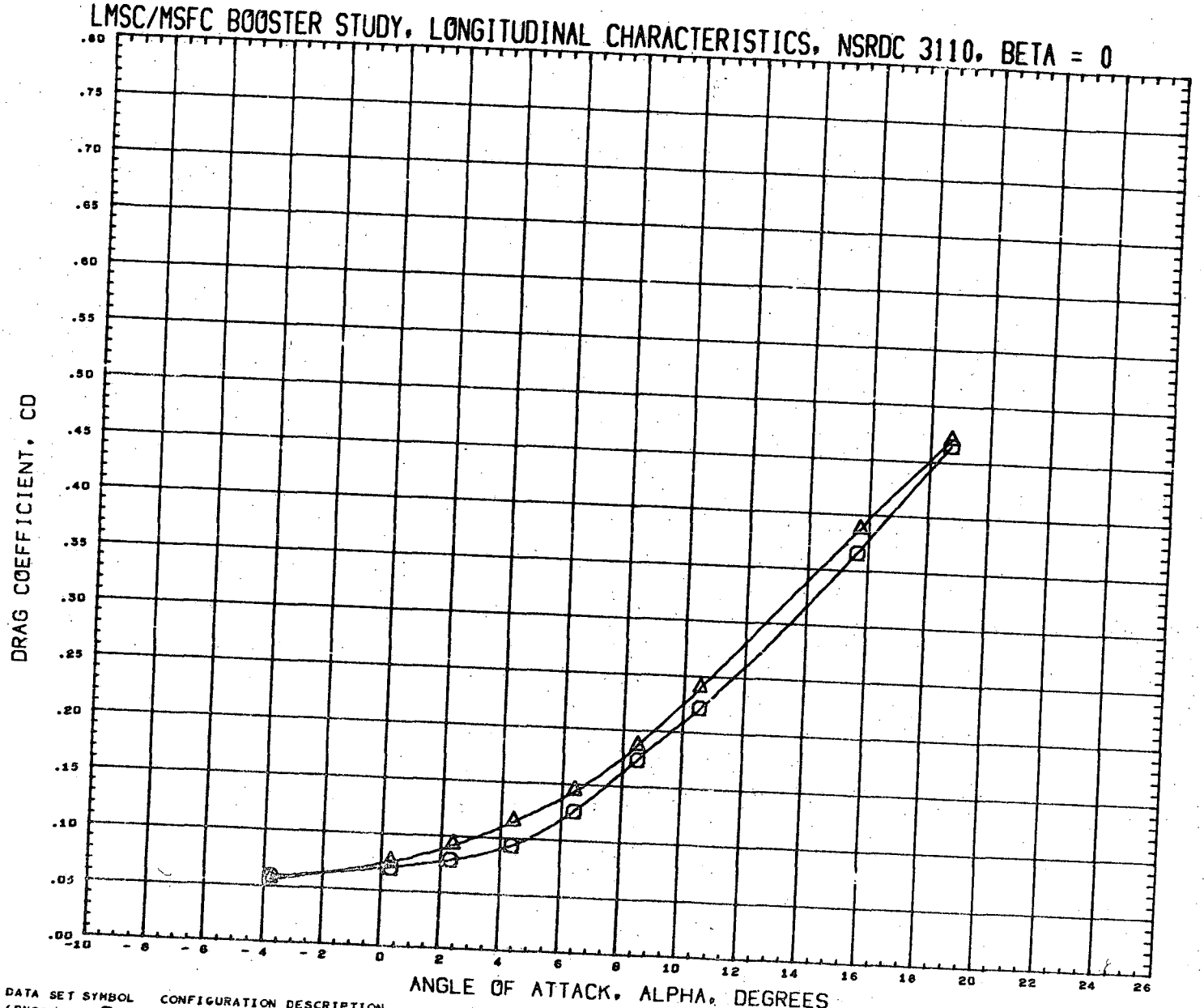


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2289)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2305)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



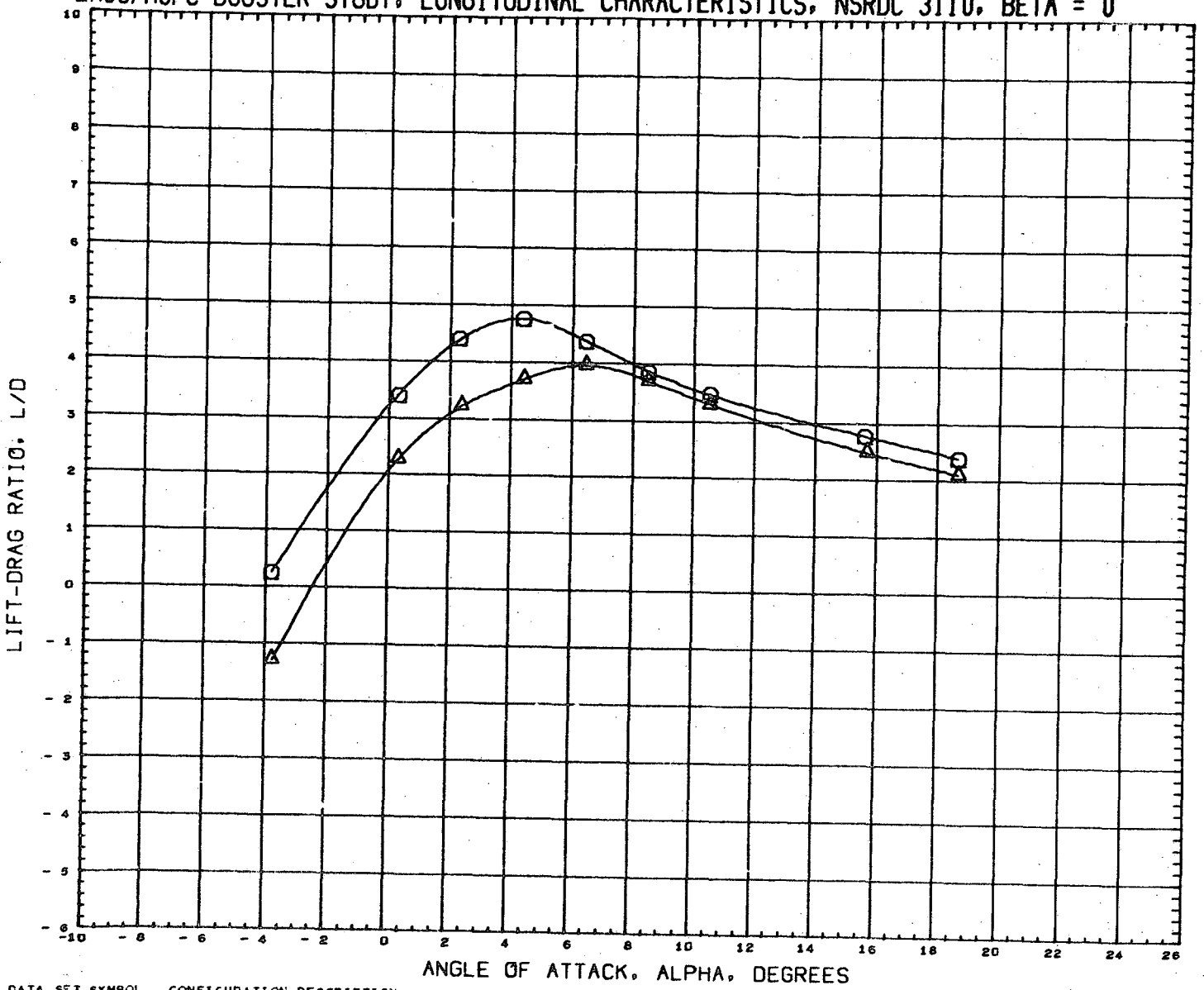
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2289)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000
(RN2305)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØØSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2289)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2303)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

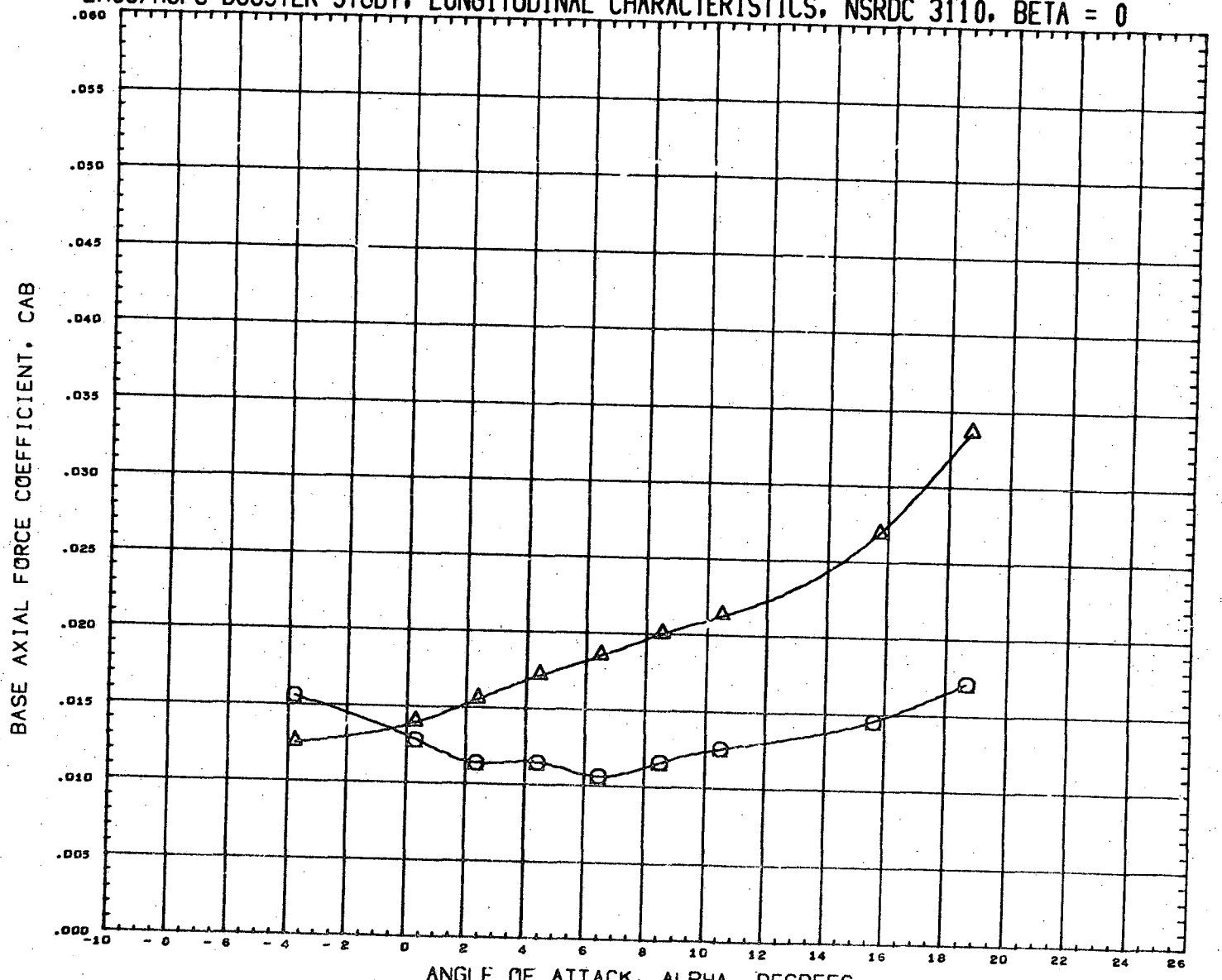
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



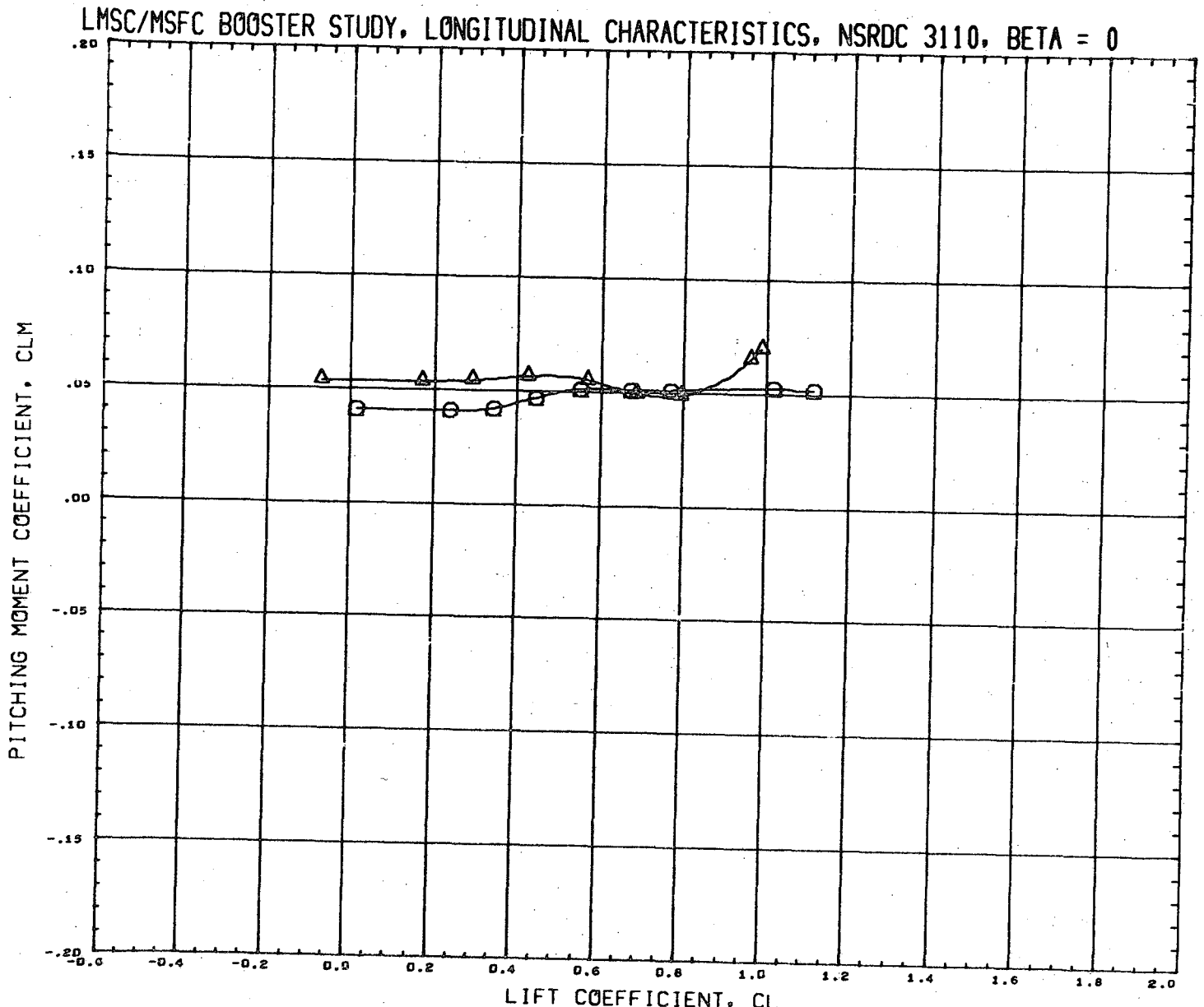
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2289)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2305)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

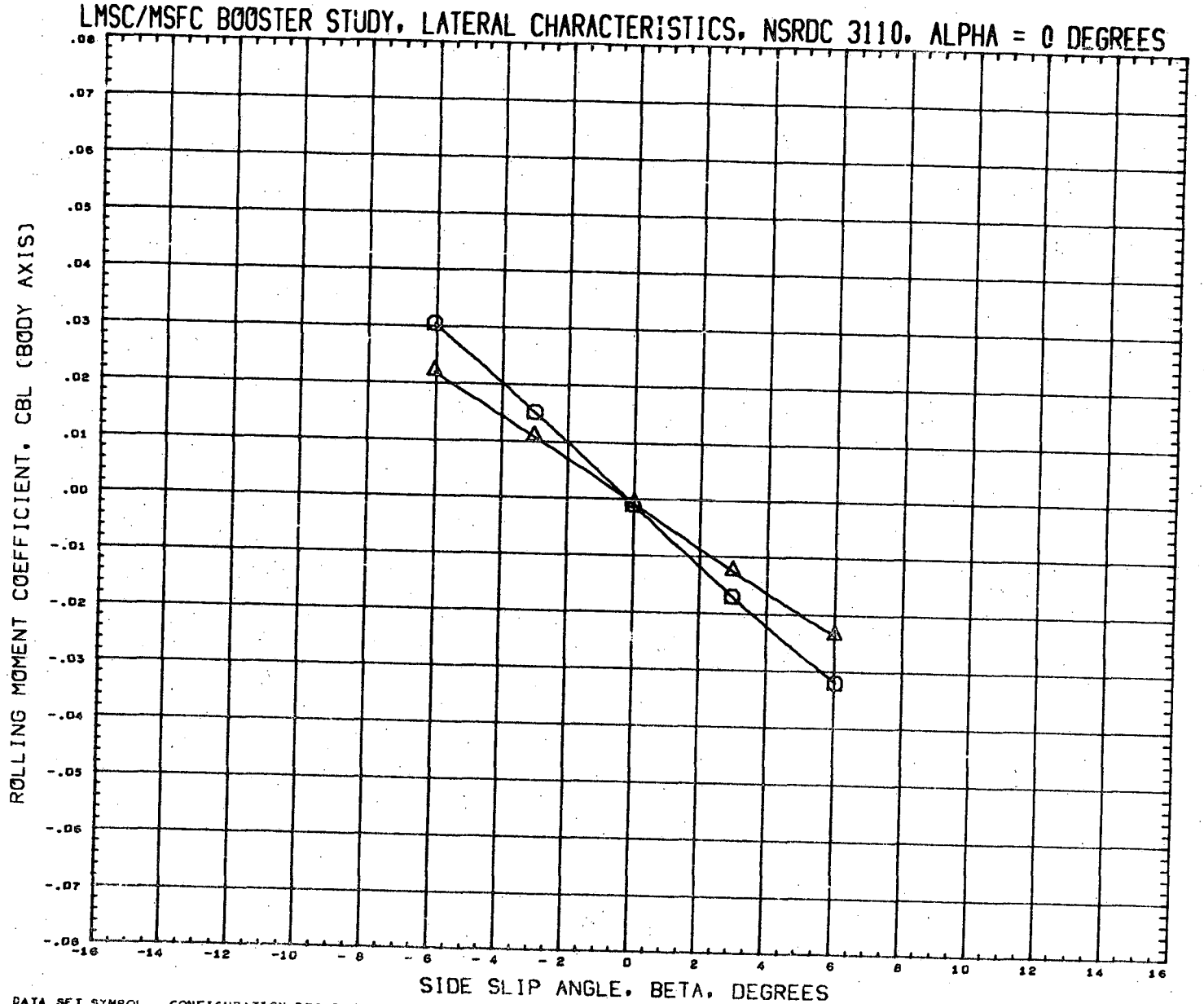


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2289)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2305)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDFOS	INCIDW	WNGFOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

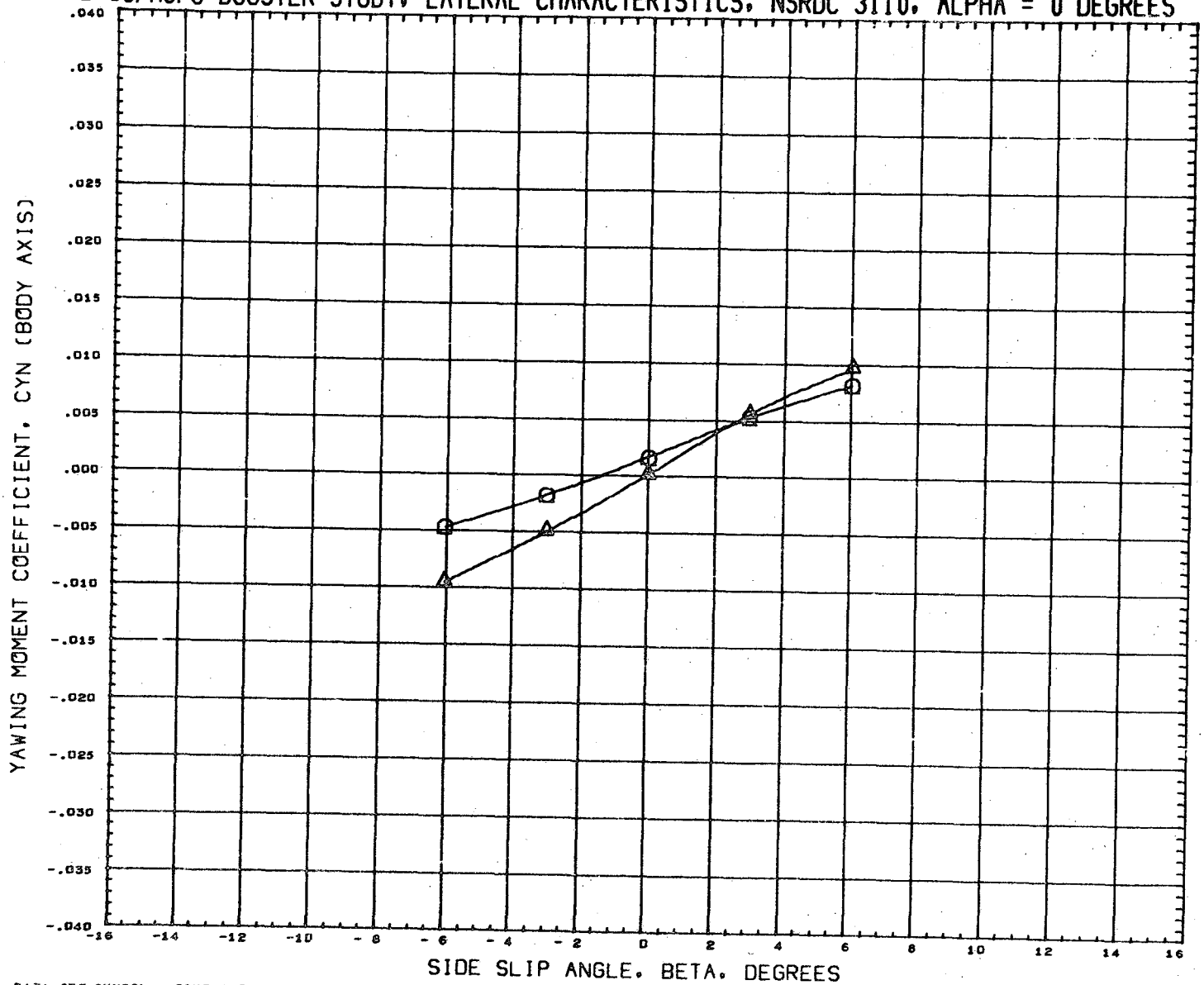


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2290)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000
(RN2306)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

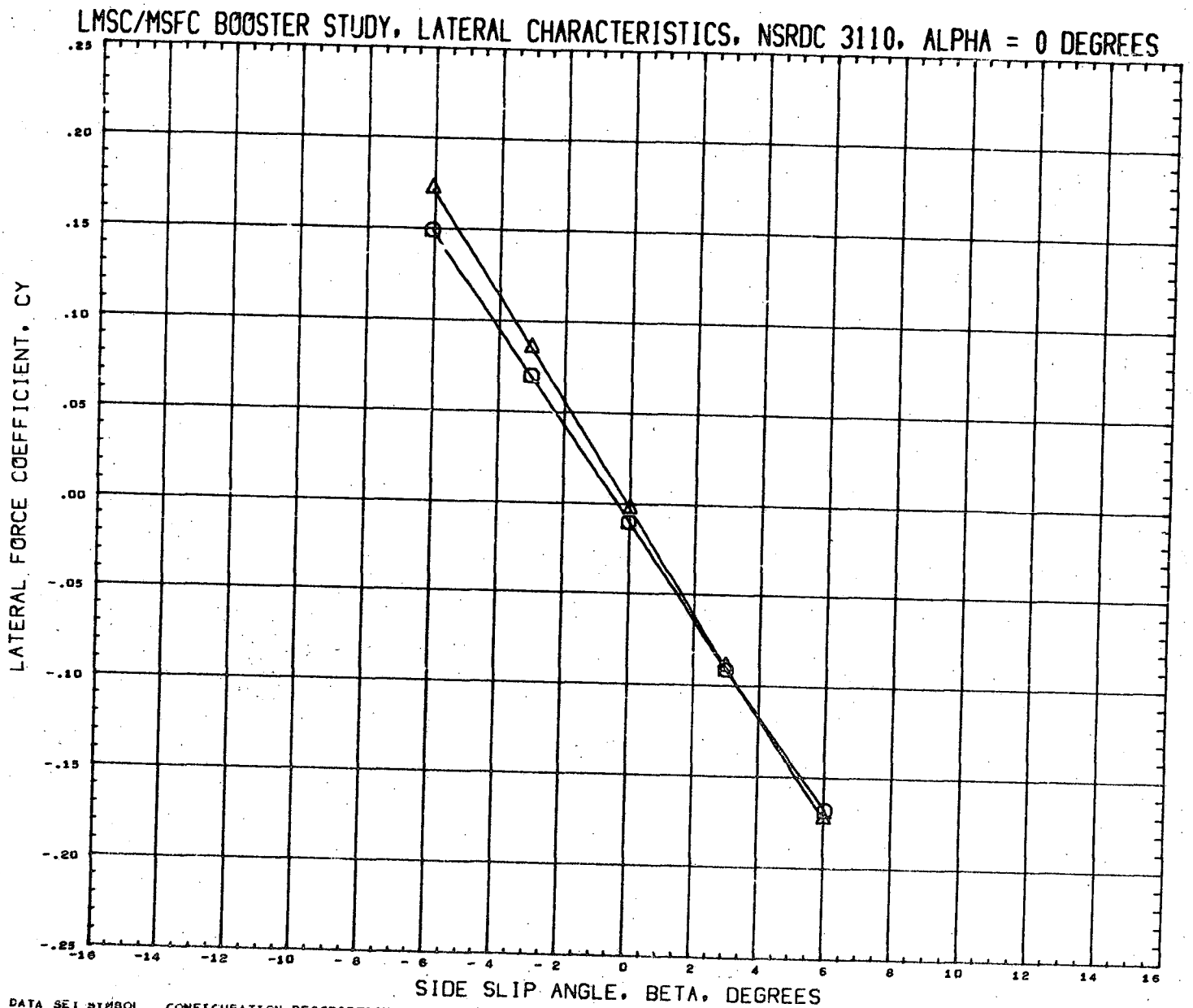
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2290)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000
(RN2306)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

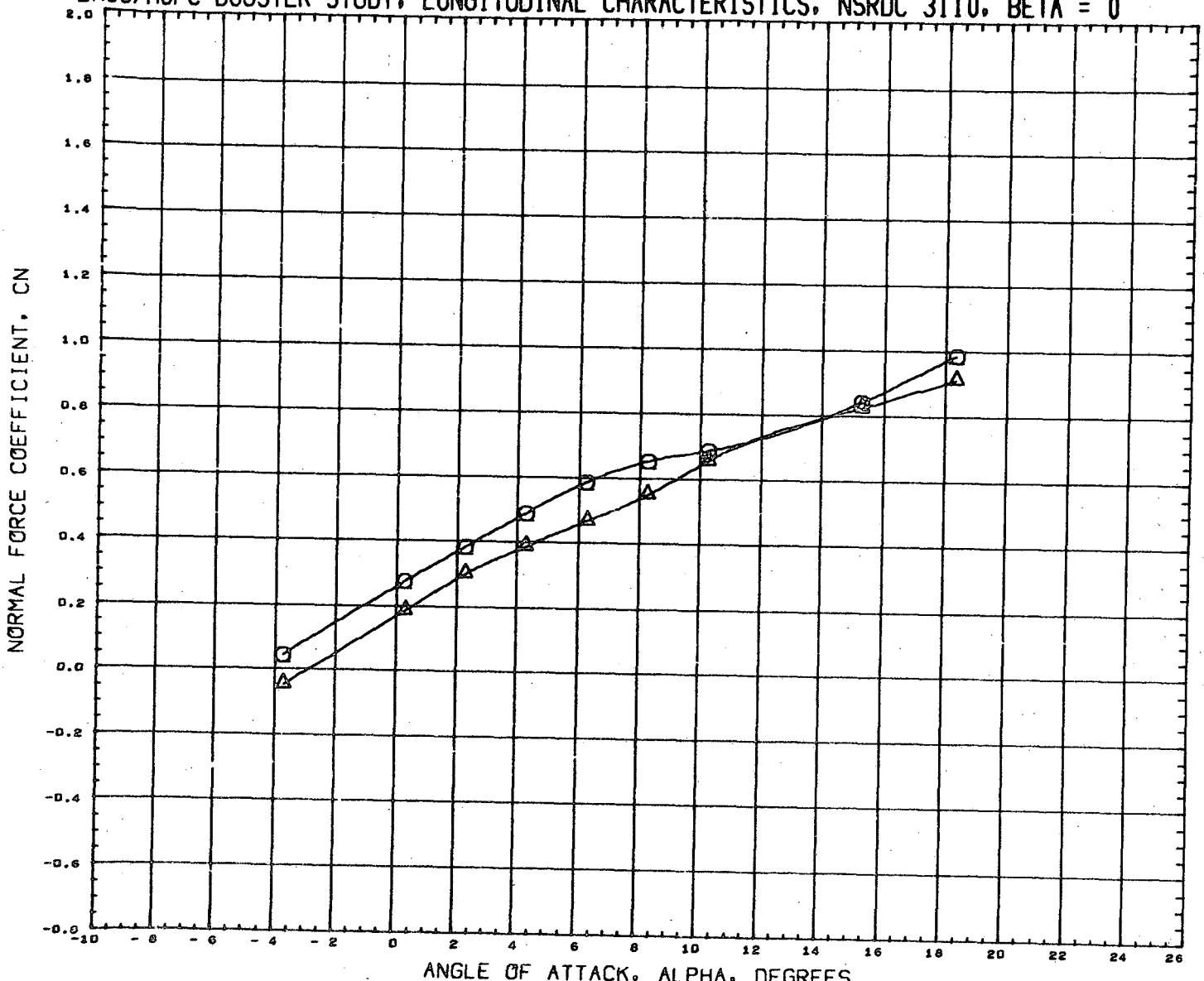


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2290)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000
(RN2306)		NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

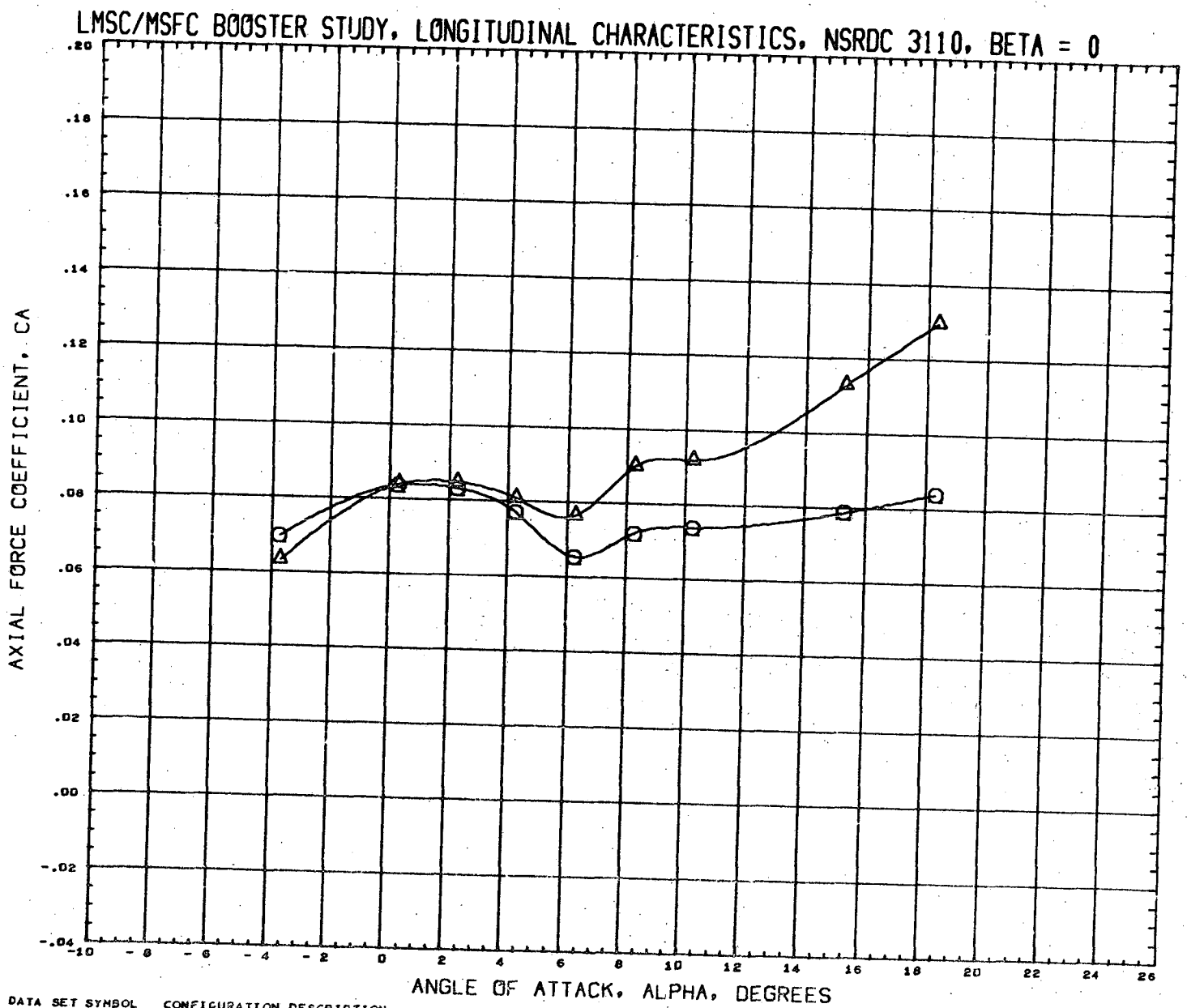


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2297)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2313)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

MACH 0.382

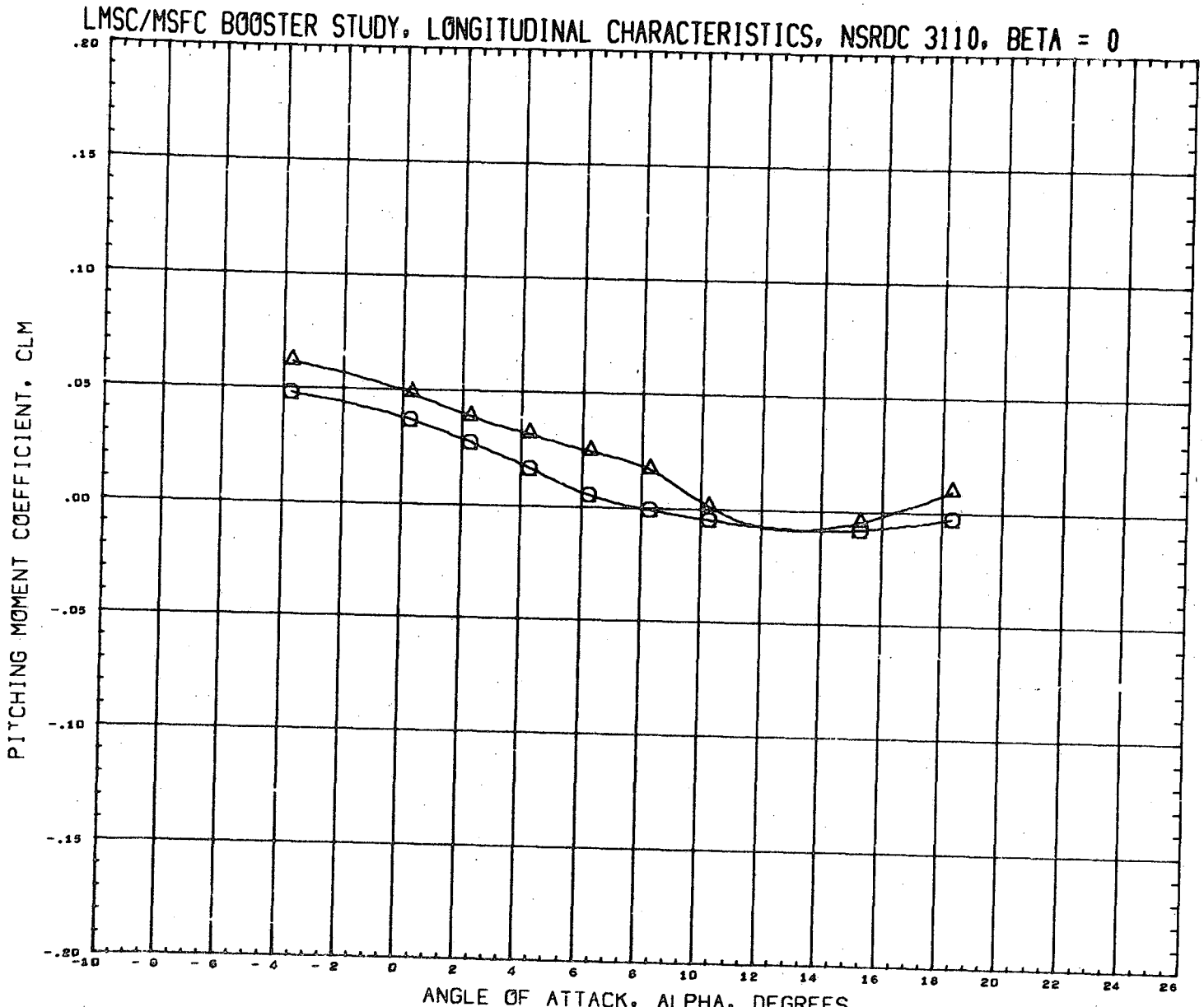
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2297)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000
(RN2313)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

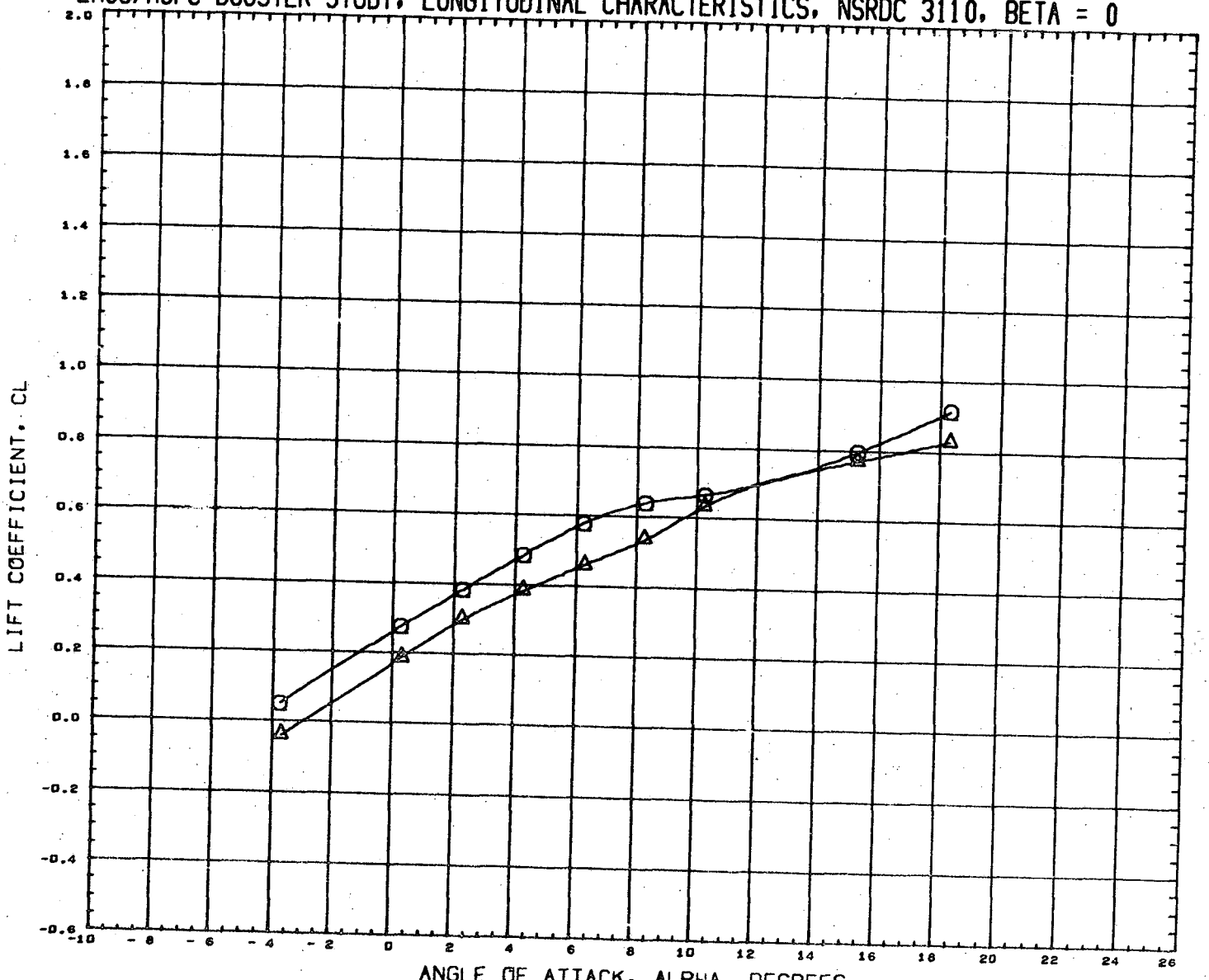


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2297)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000
(RN2313)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

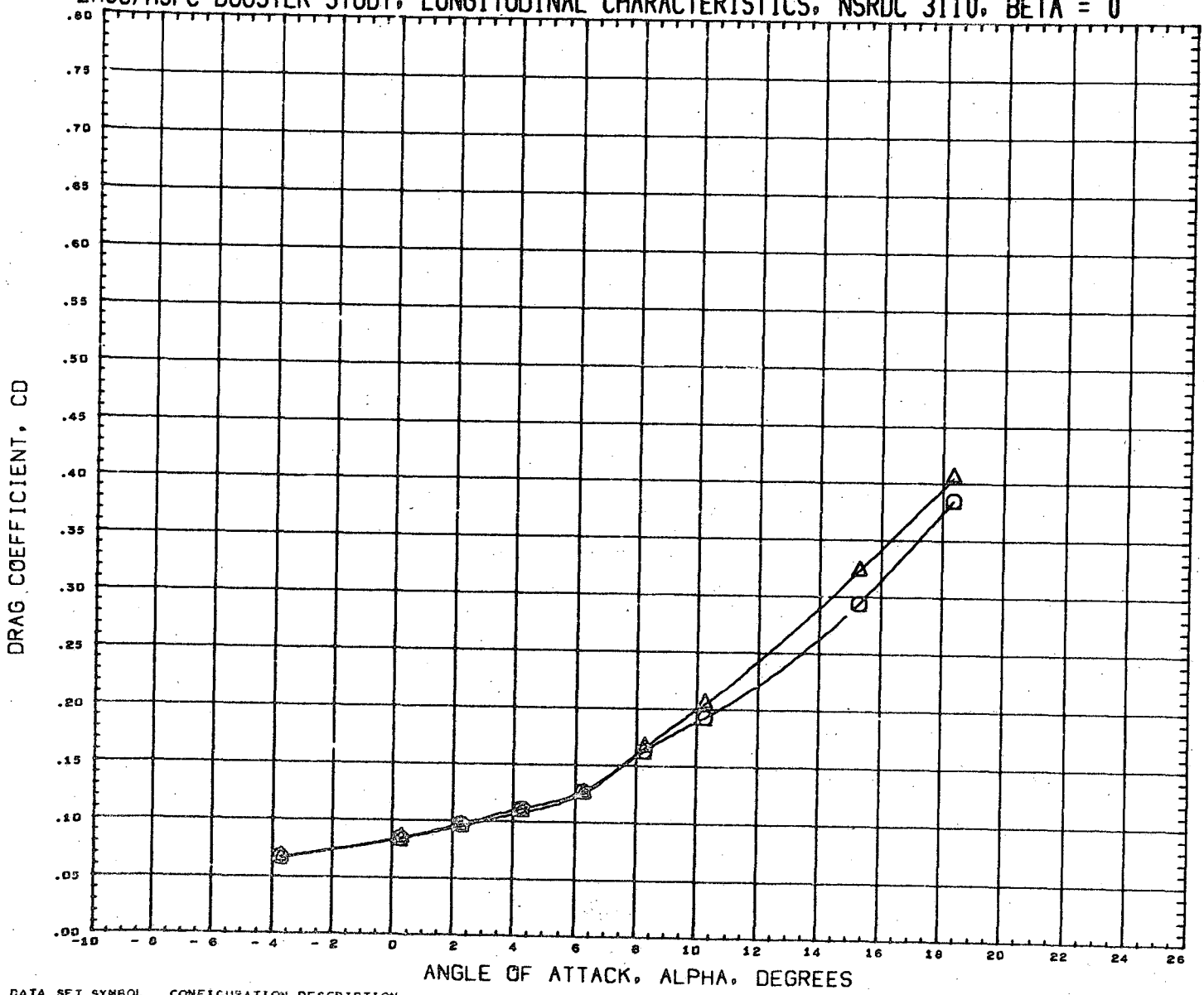


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2297)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000
(RN2313)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2297)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000
(RN2313)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

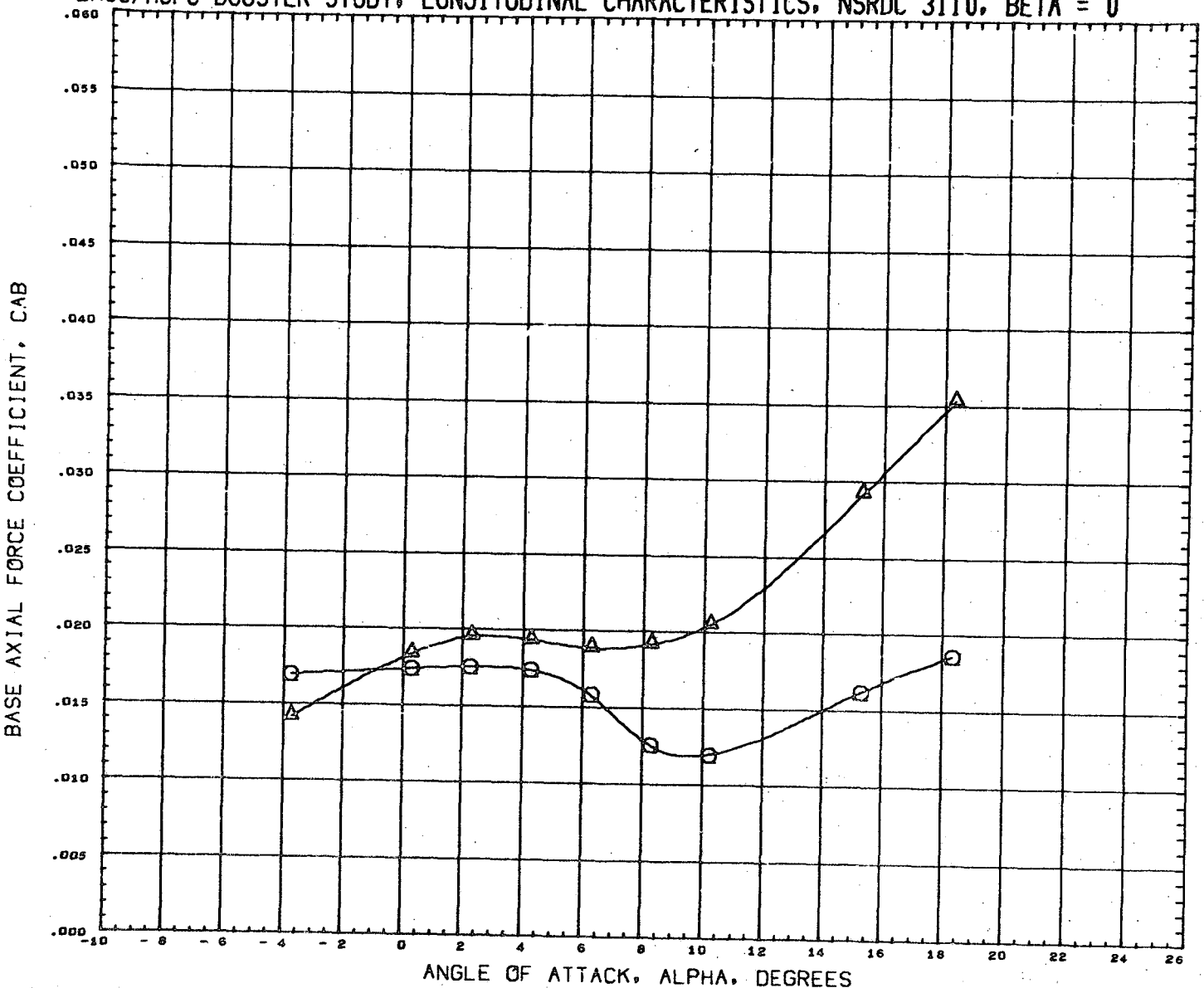
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2297)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2313)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

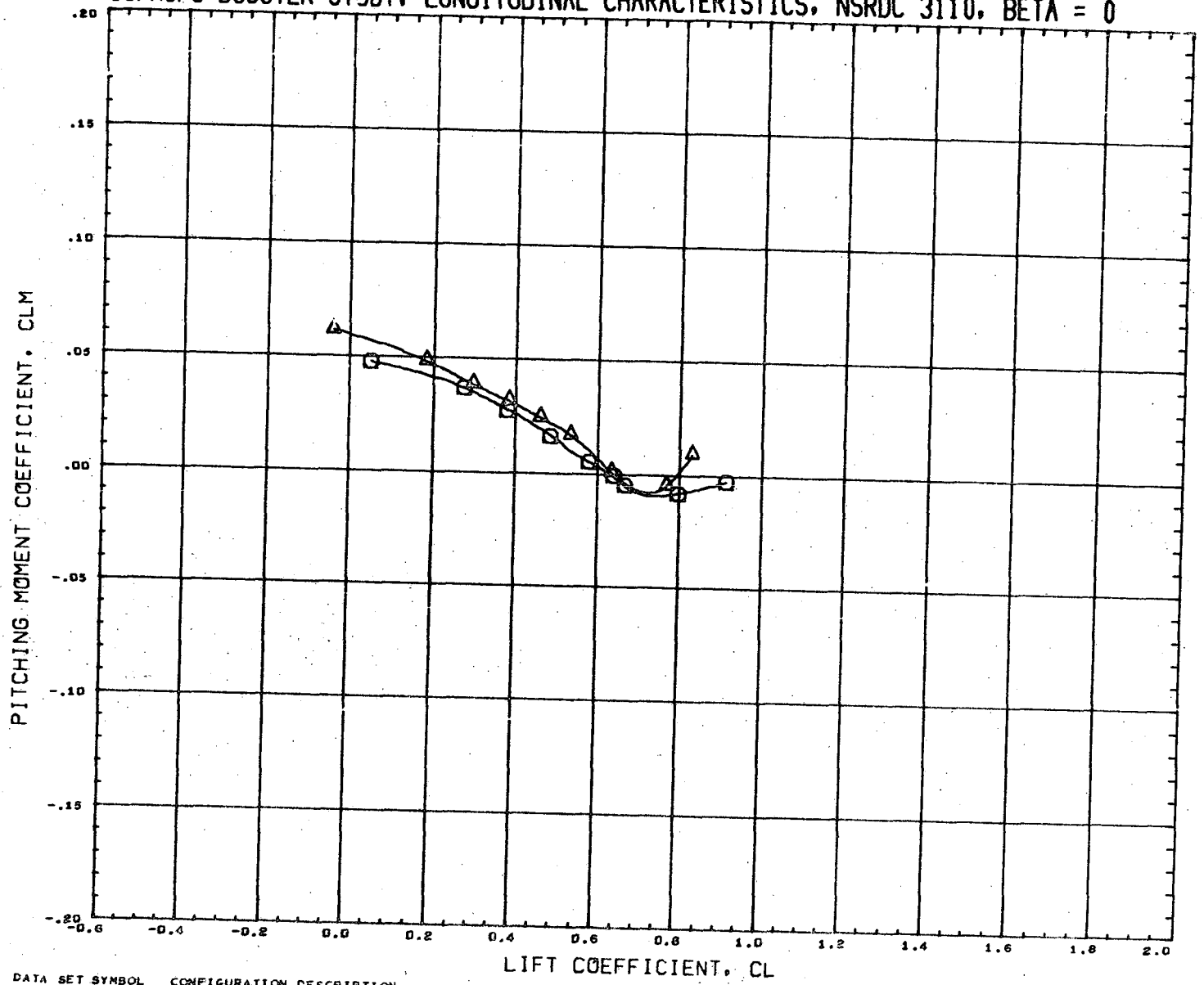


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2297)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000
(RN2313)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

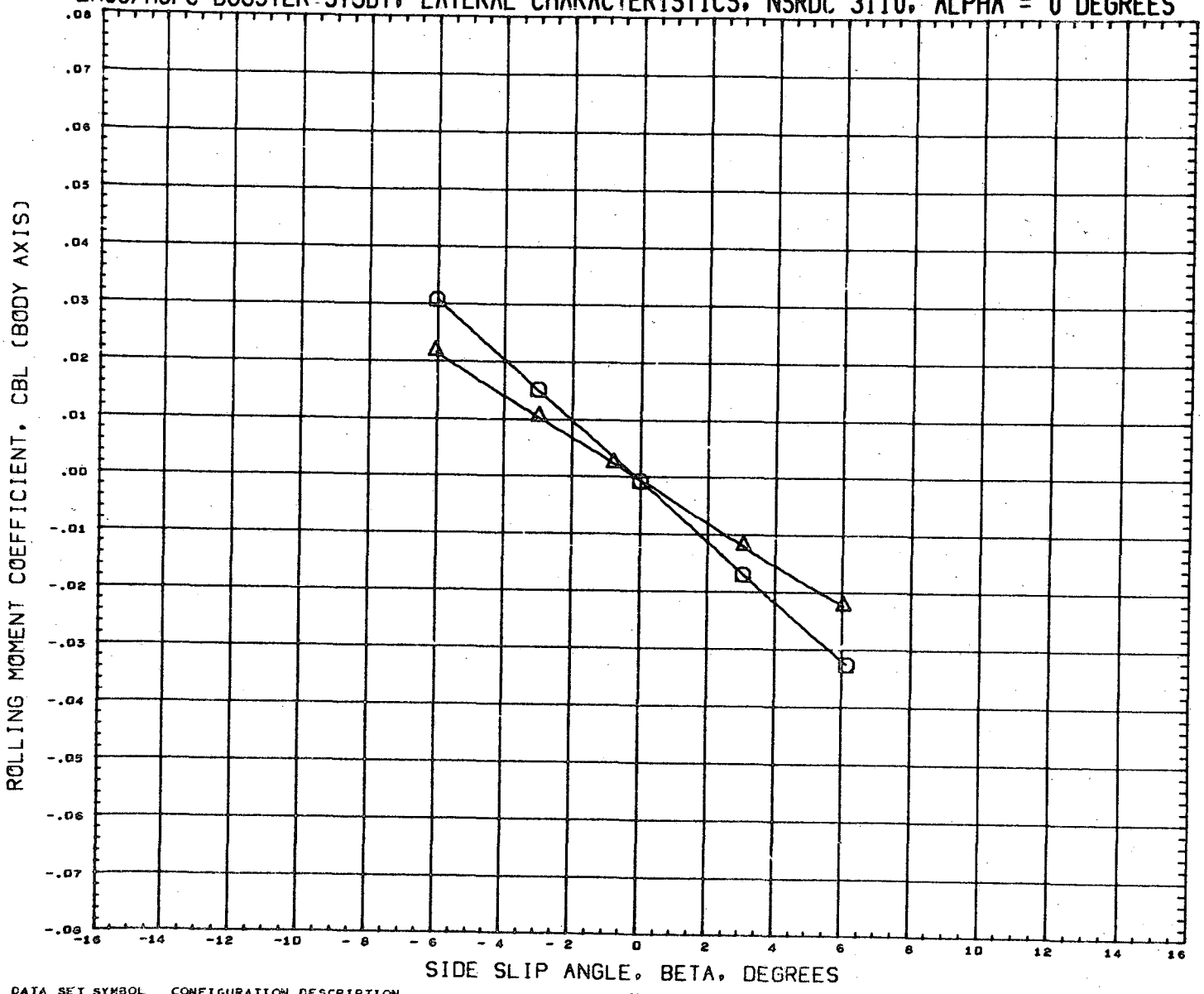


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2297)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000
(RN2313)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

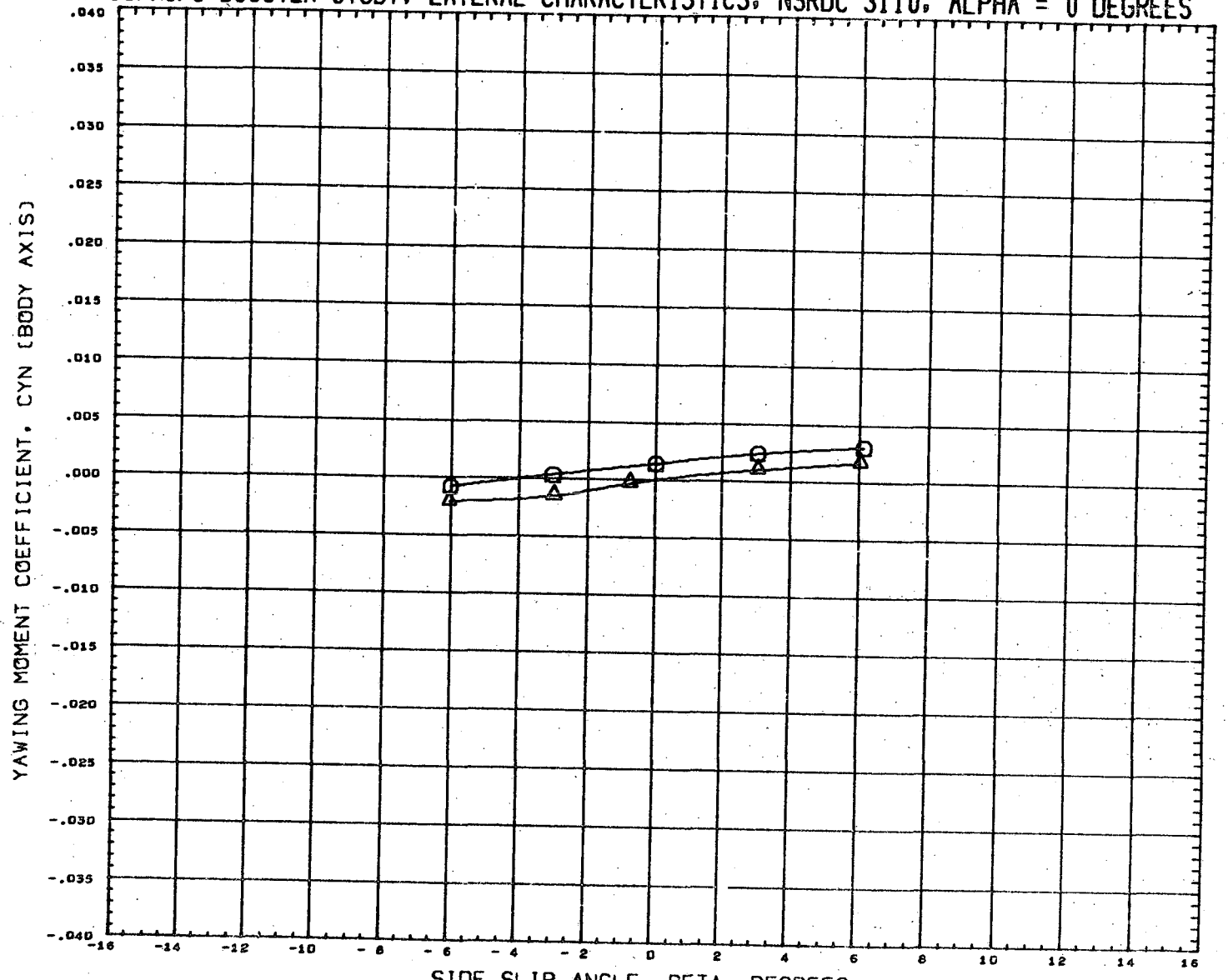


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2298)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000
(RN2314)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØØSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

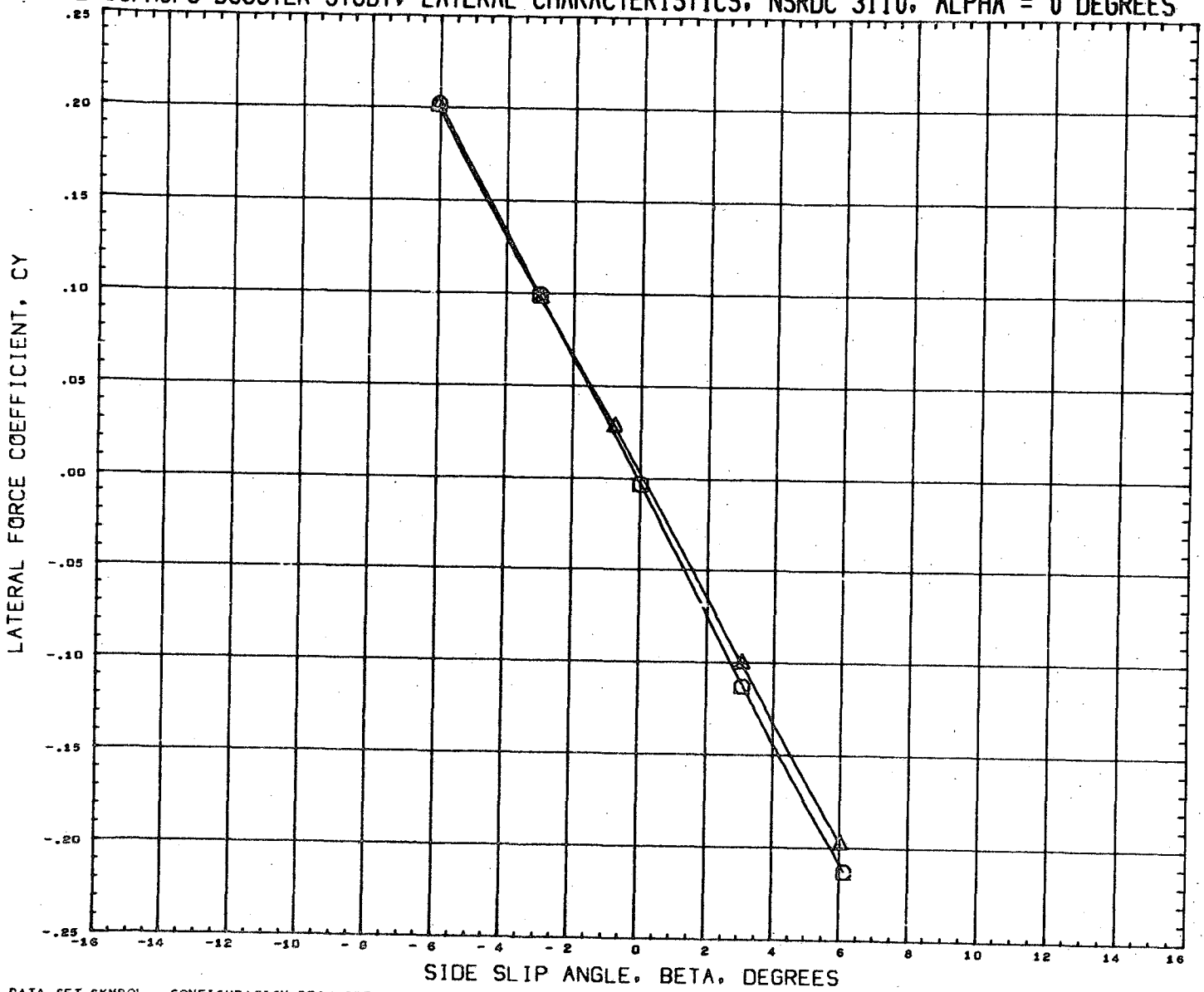


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2298)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000
(RN2314)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

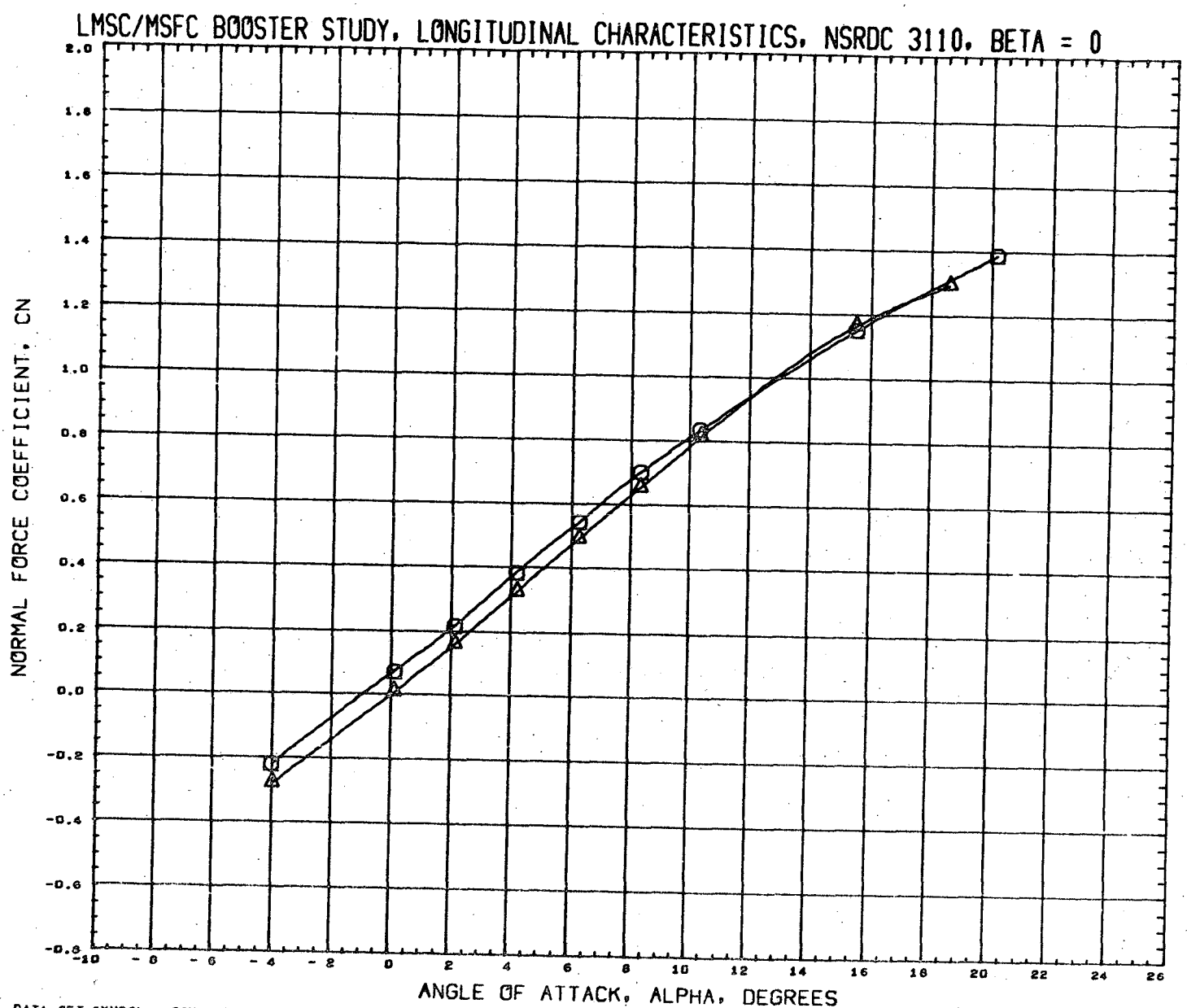
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2298)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000
(RN2314)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2065)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2081)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

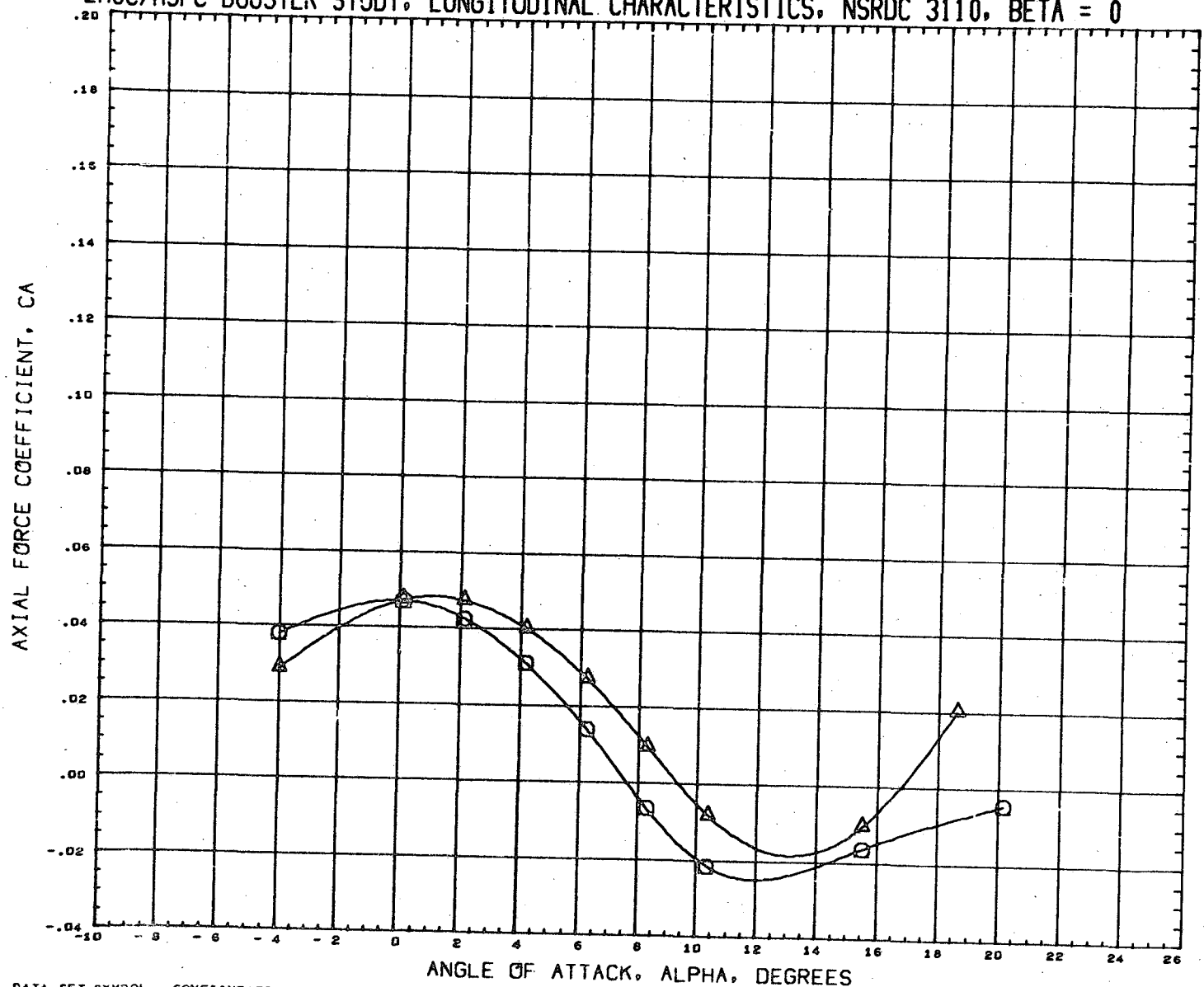
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



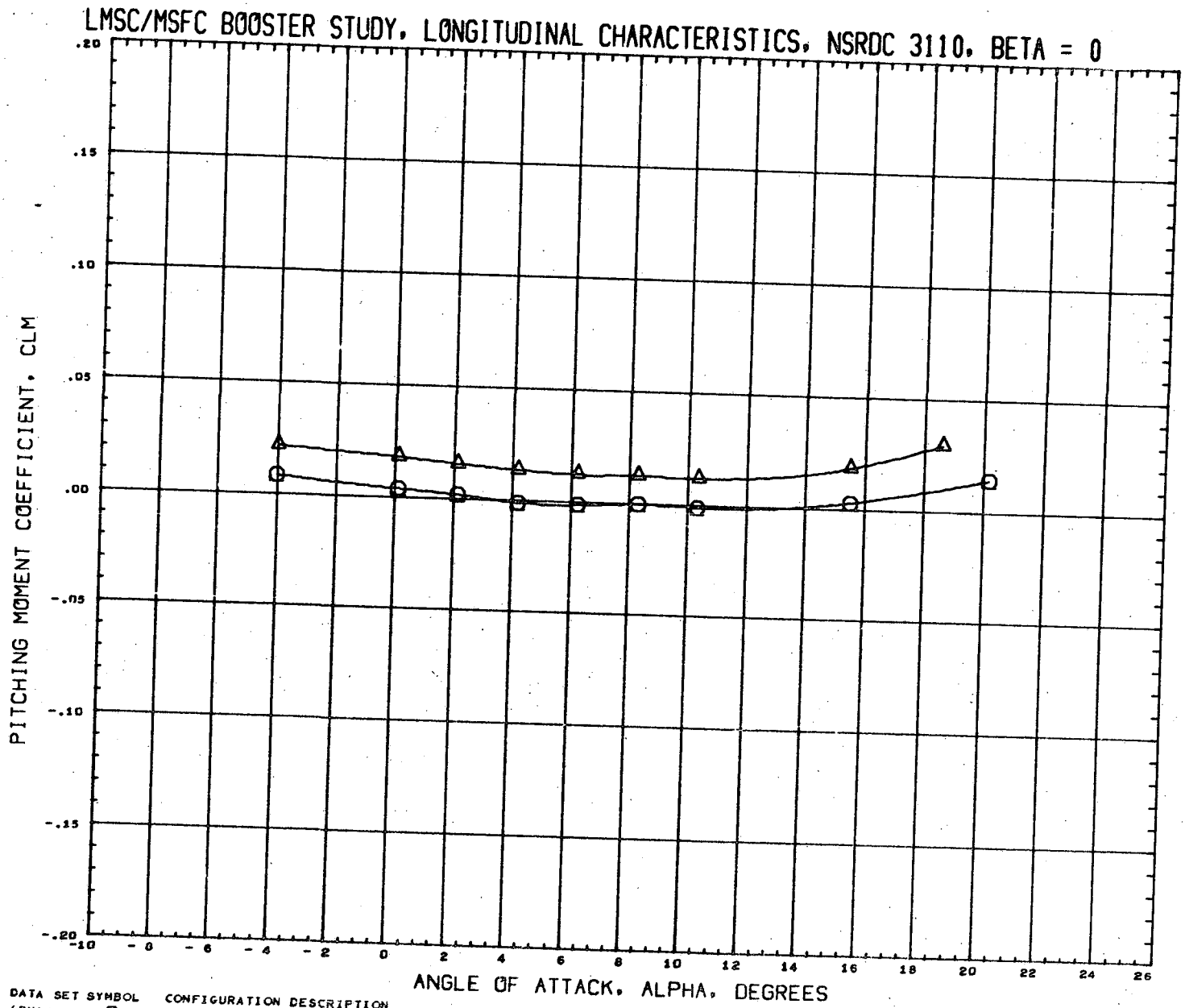
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2065)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2081)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

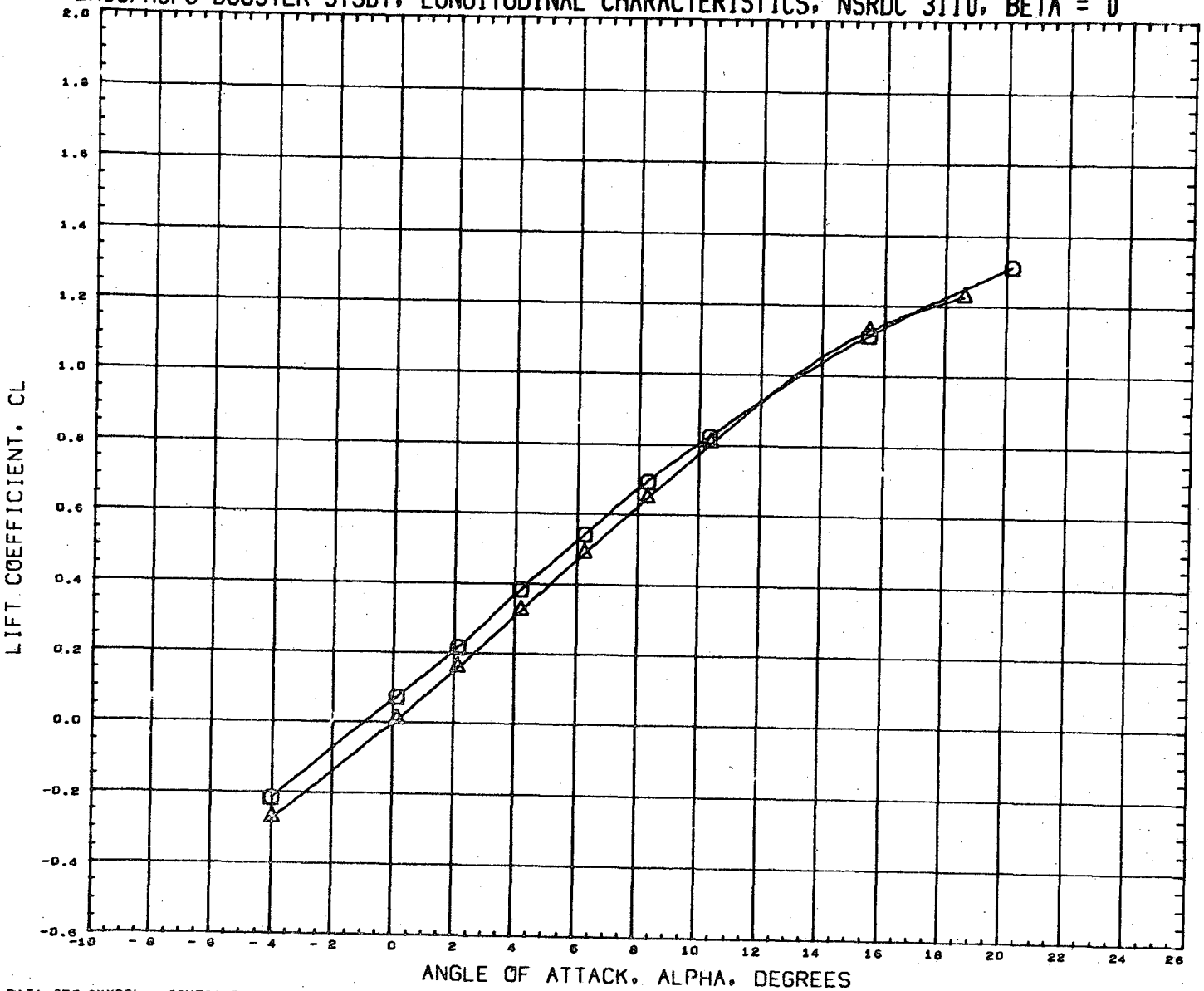


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2065) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2081) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

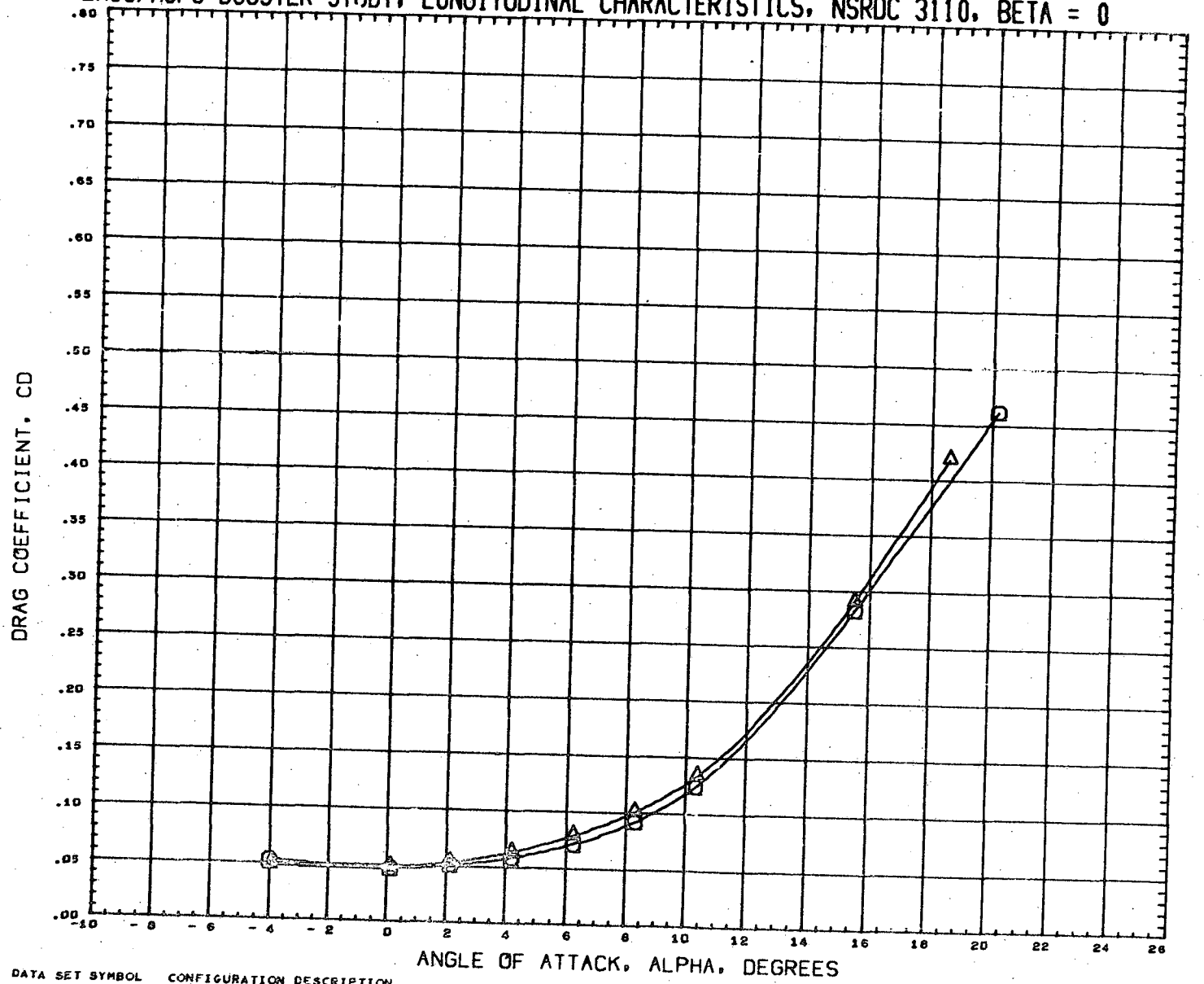


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2065)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2081)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2065)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2081)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

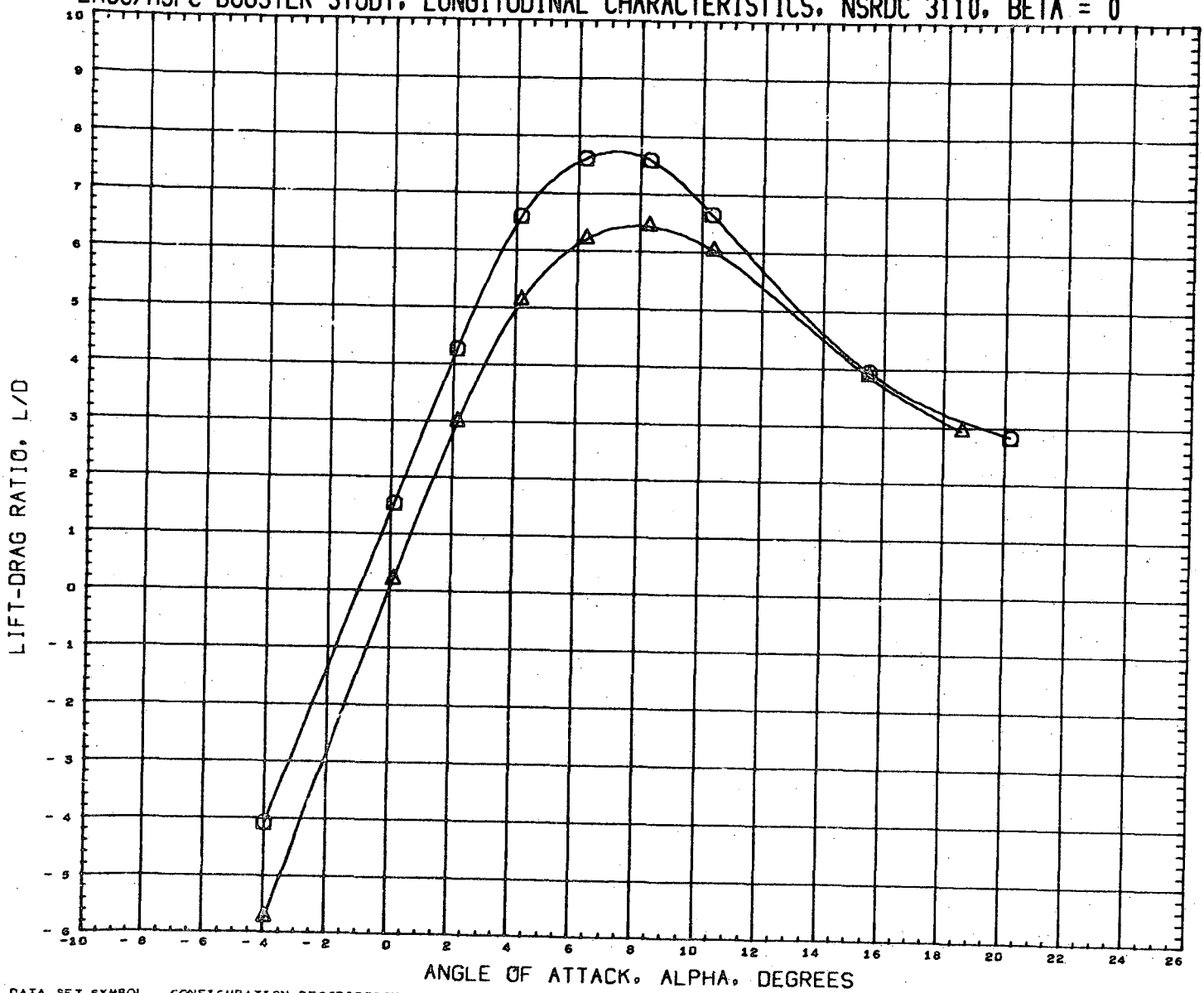
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BØØSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2065)	○	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1
(RN2081)	△	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1

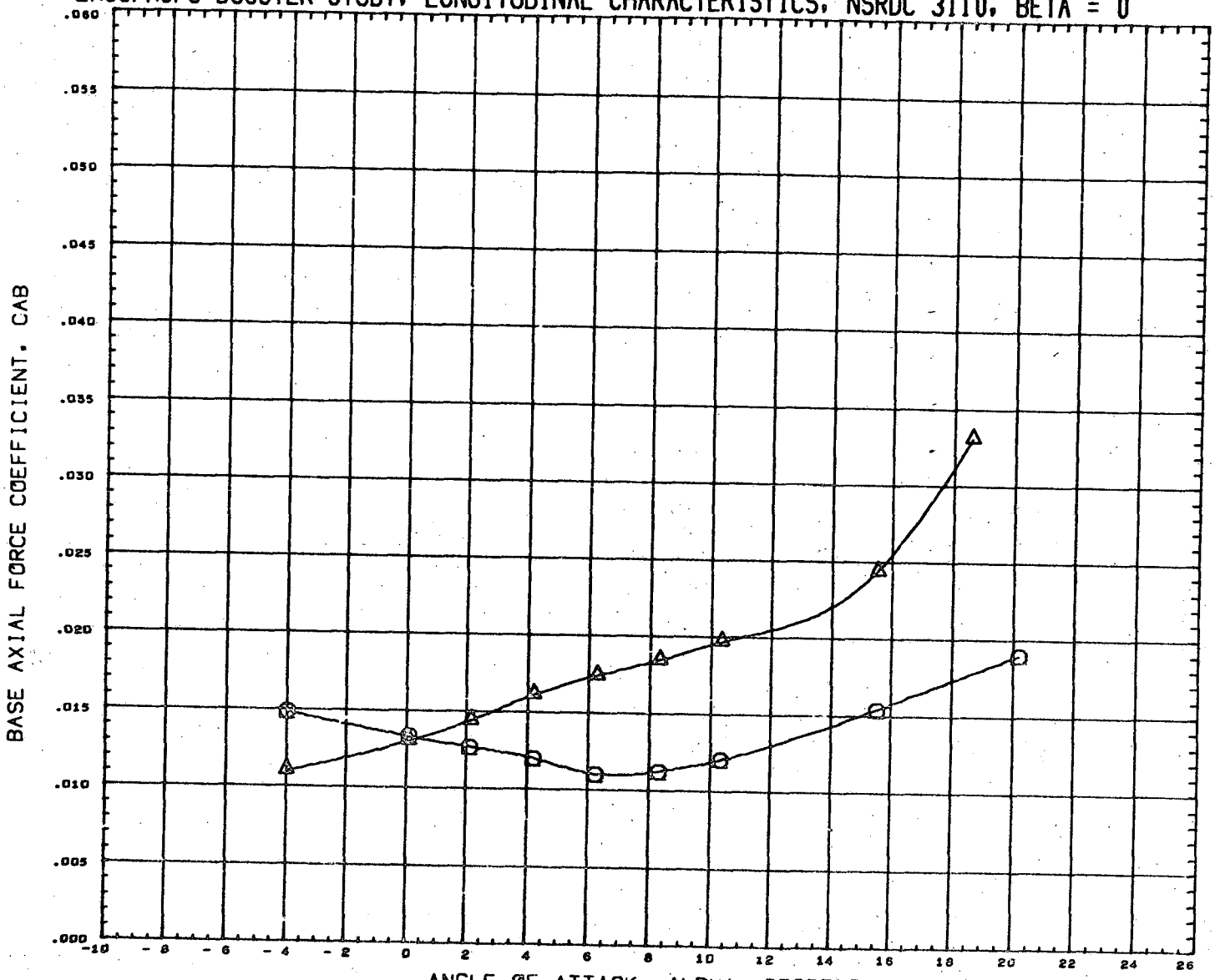
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



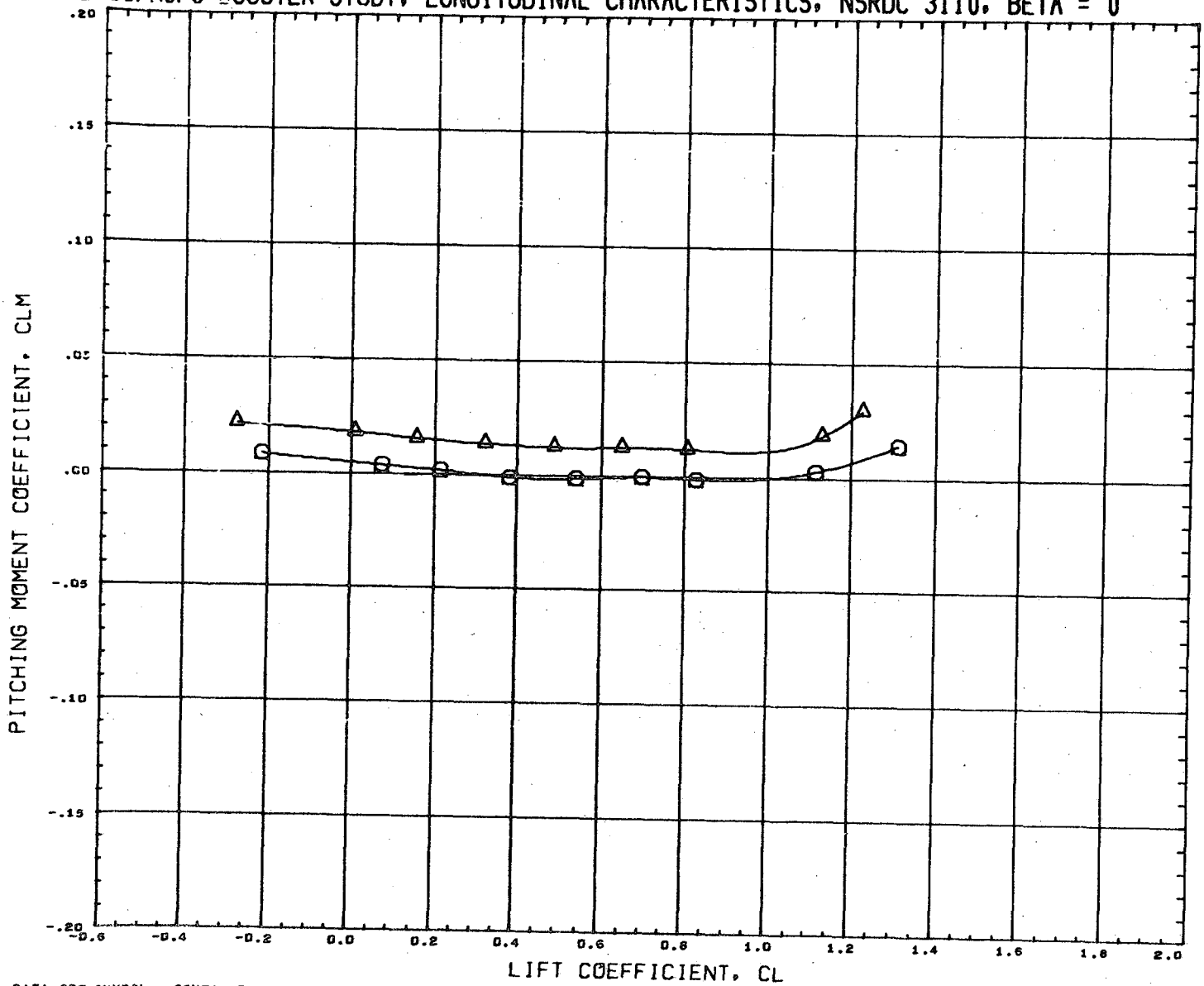
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2065)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2081)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

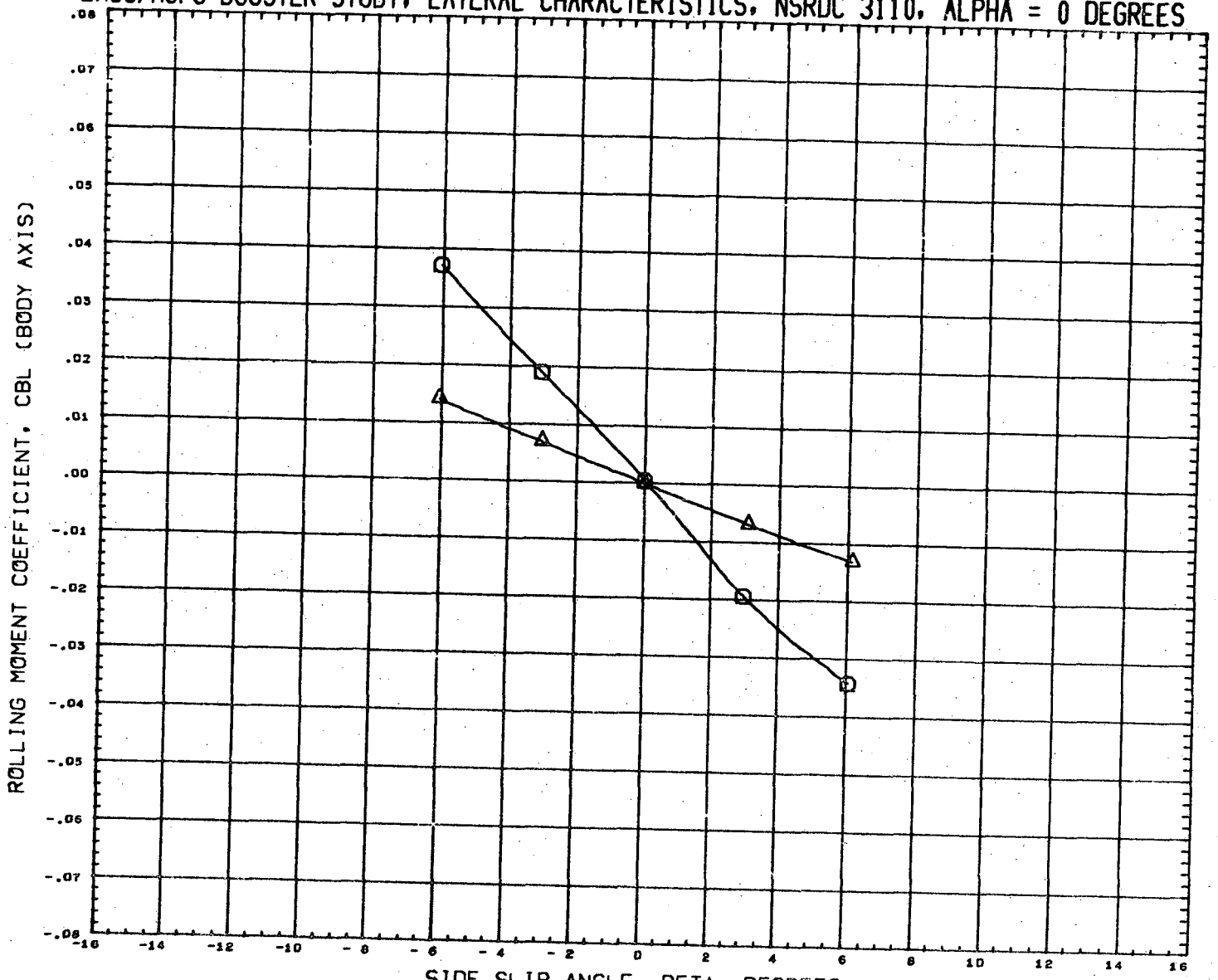


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2065)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2081)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



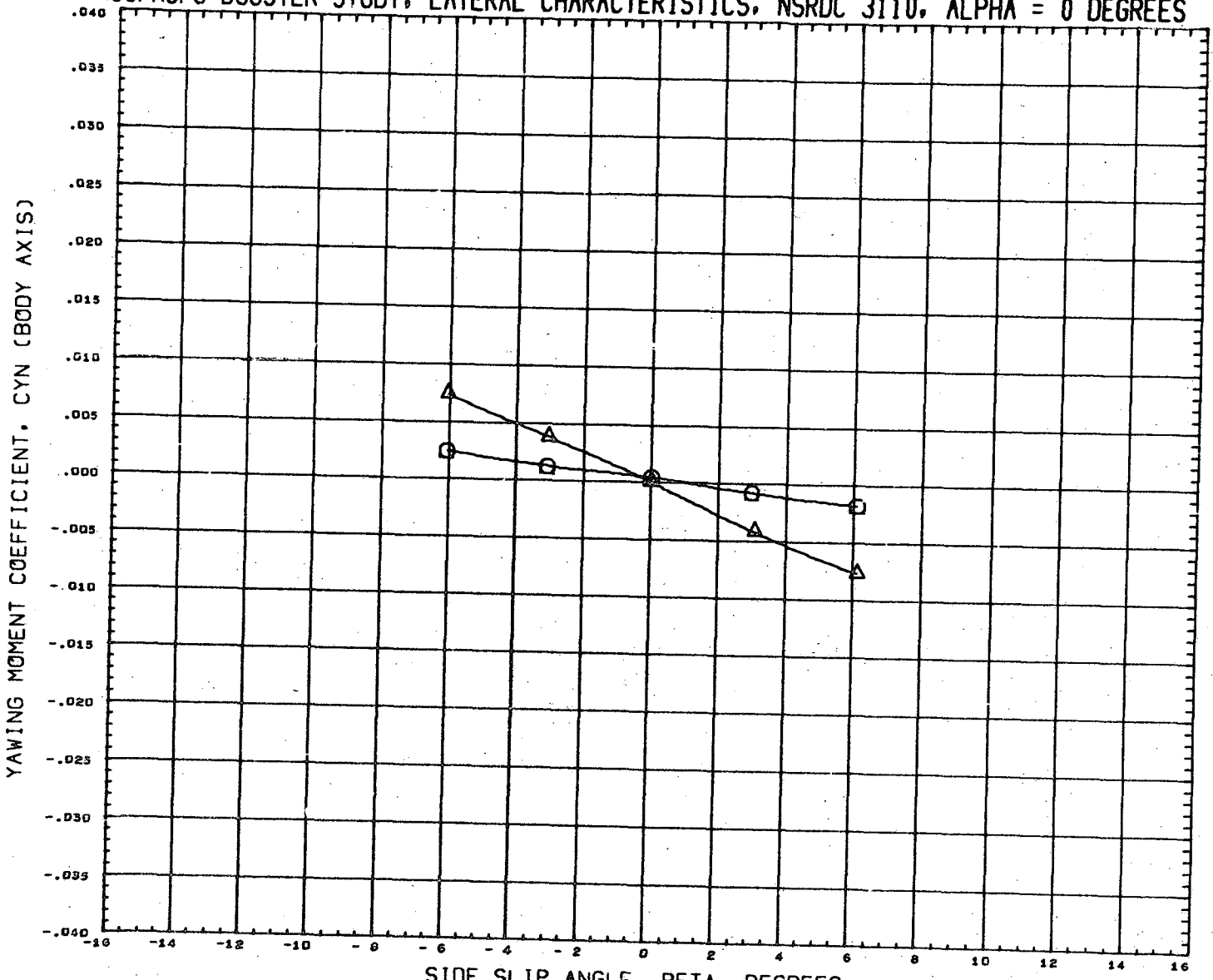
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2066)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2082)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.361

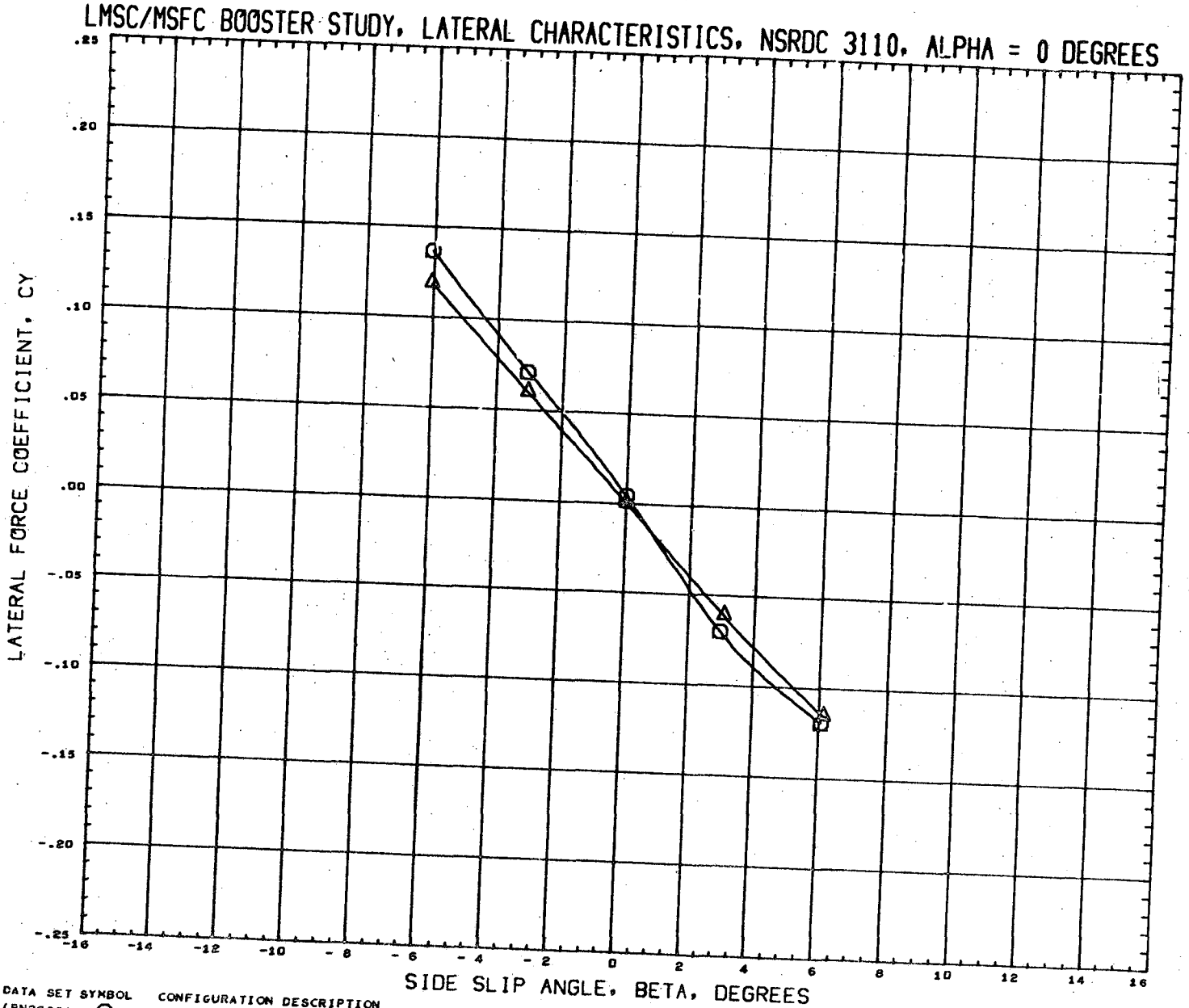
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2066) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000
(RN2082) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2066)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2082)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

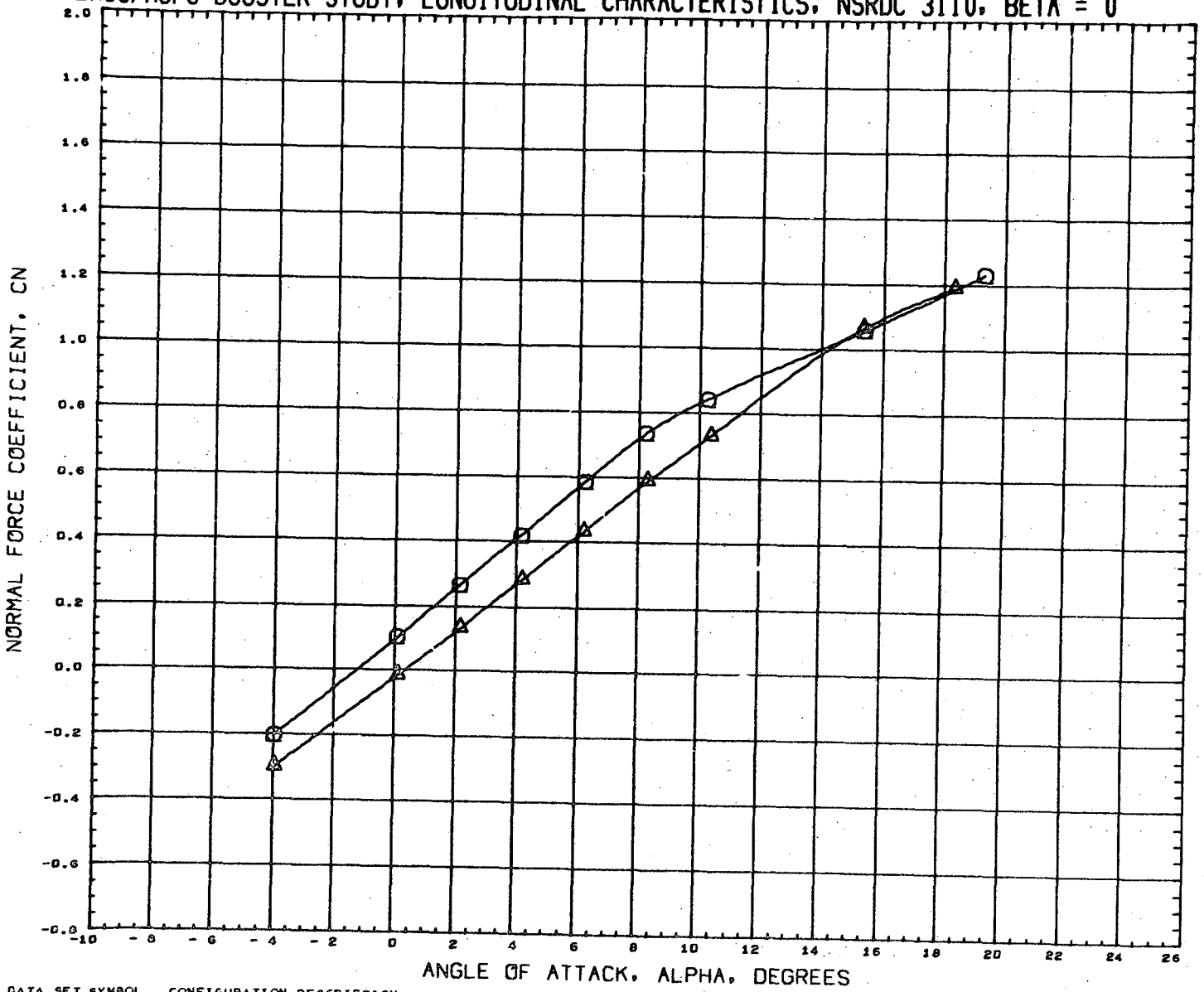
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

MACH 0.581

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

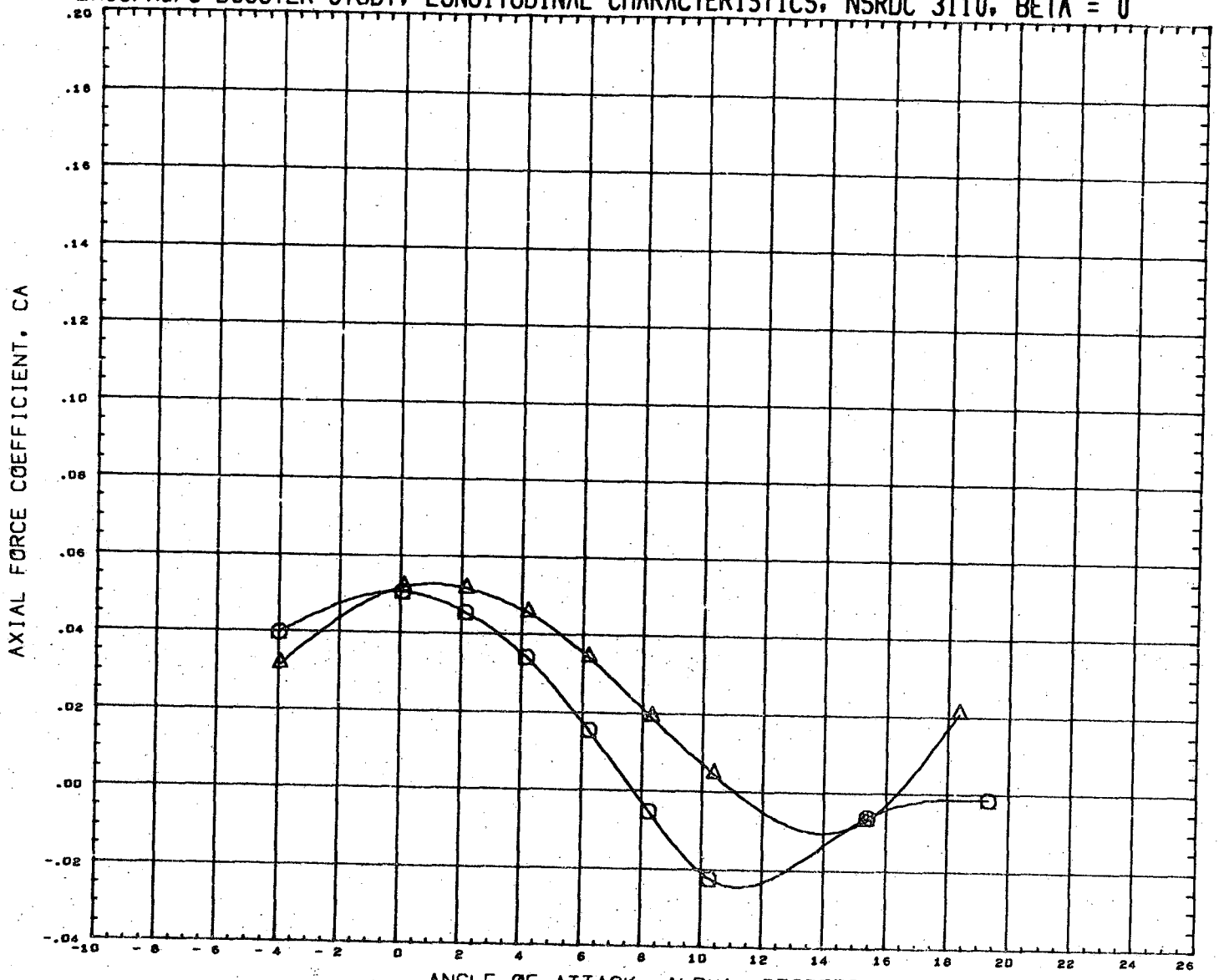


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2073)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2089)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

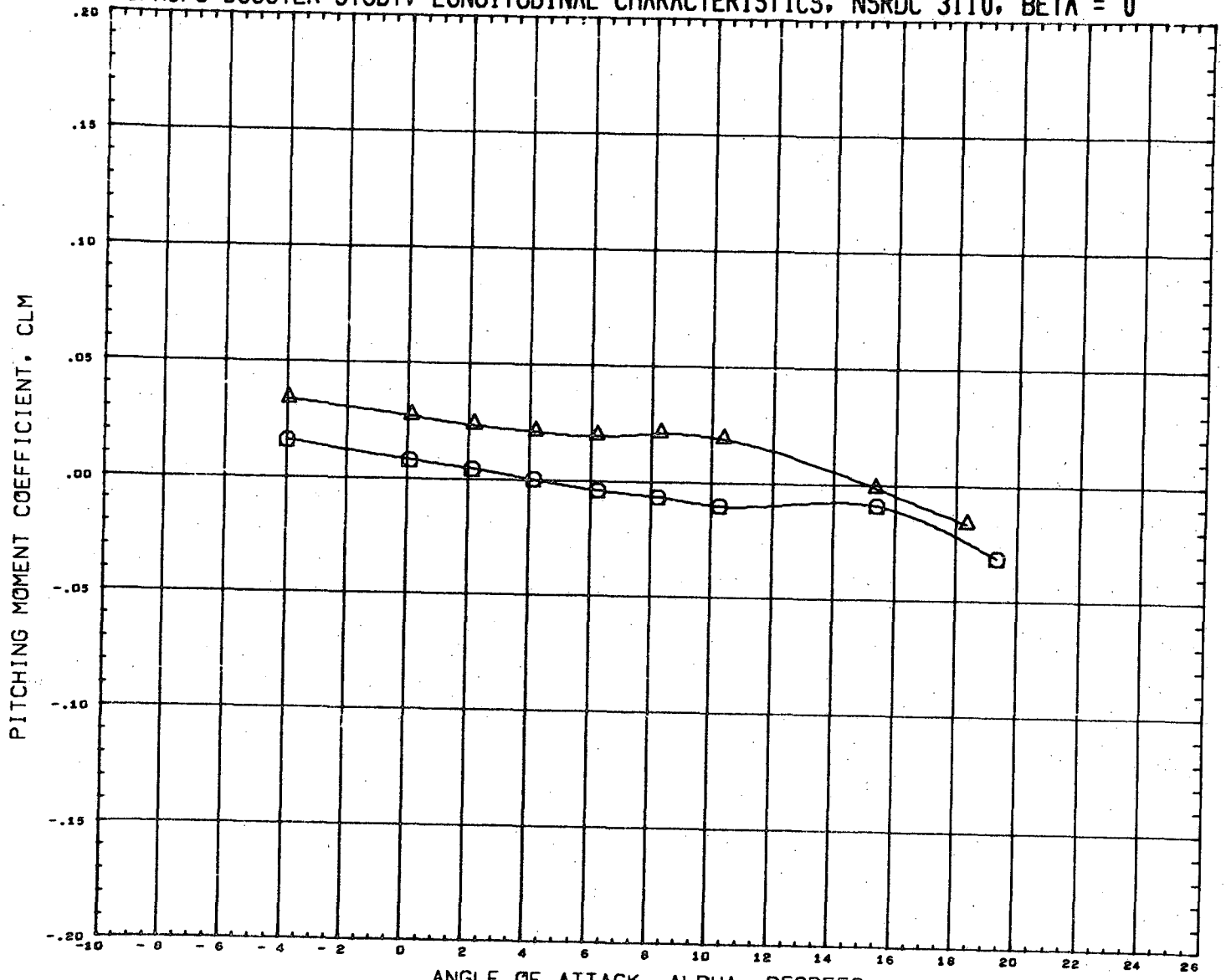


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2073)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2089)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

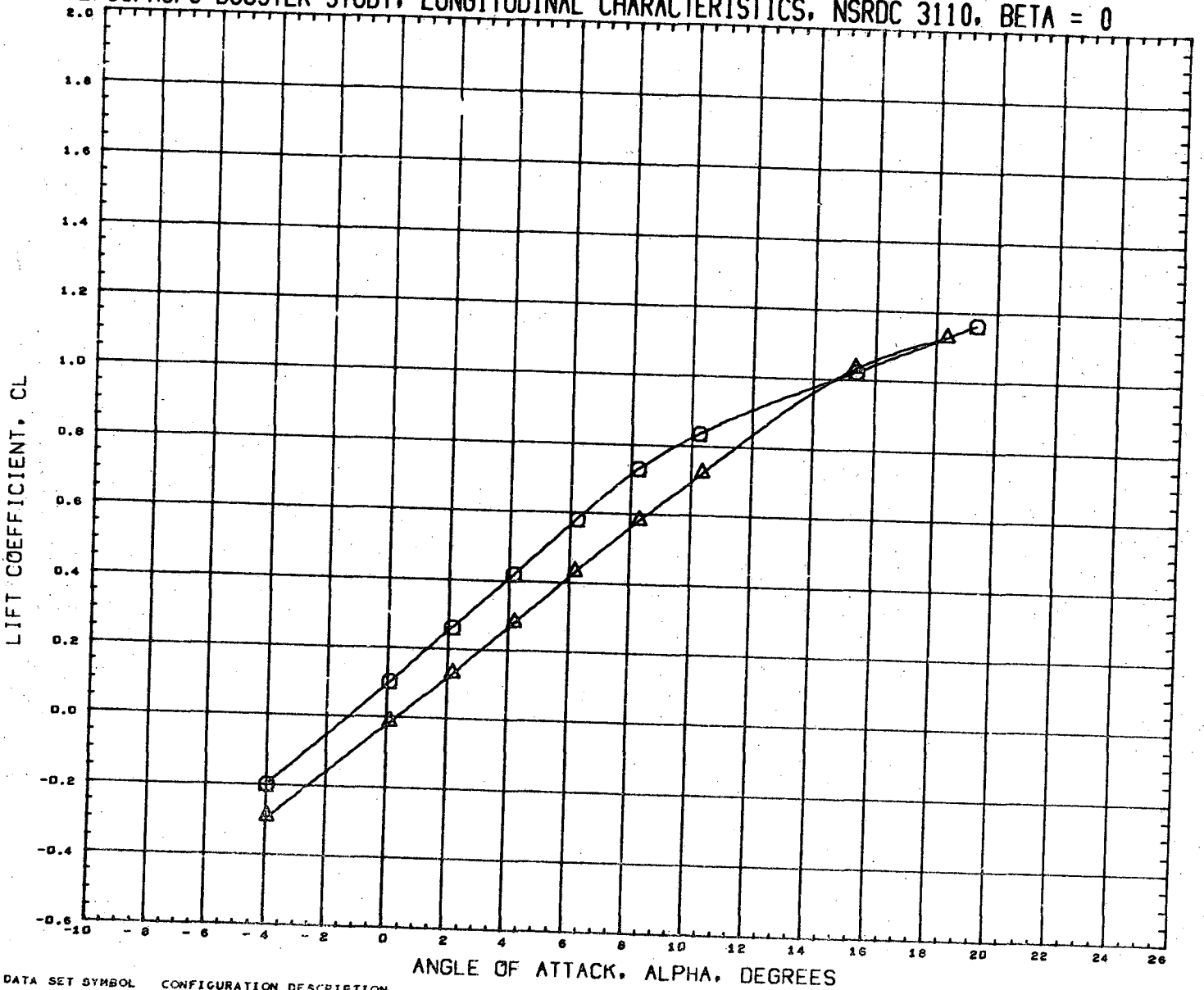


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2073)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2089)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



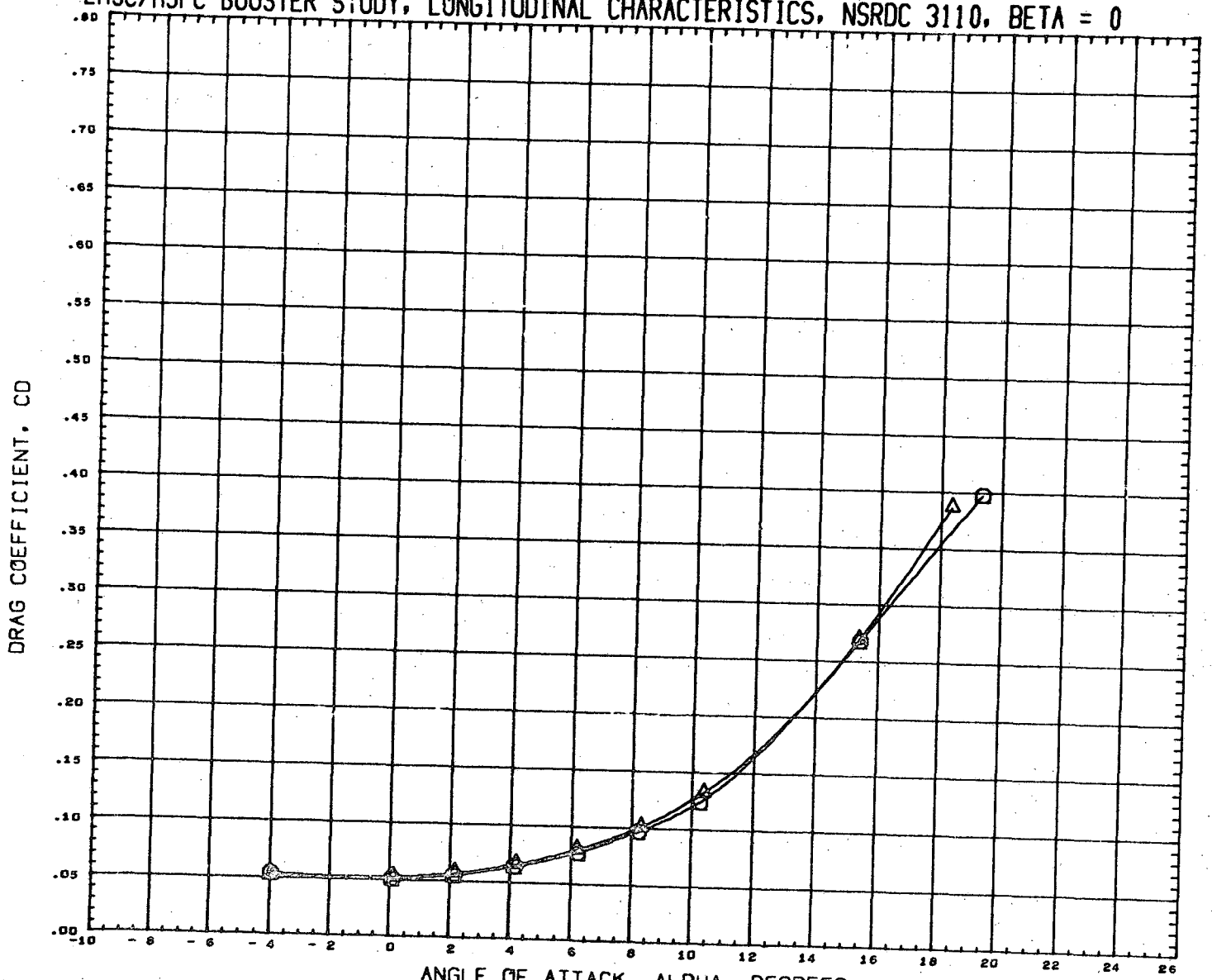
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2073)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2089)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

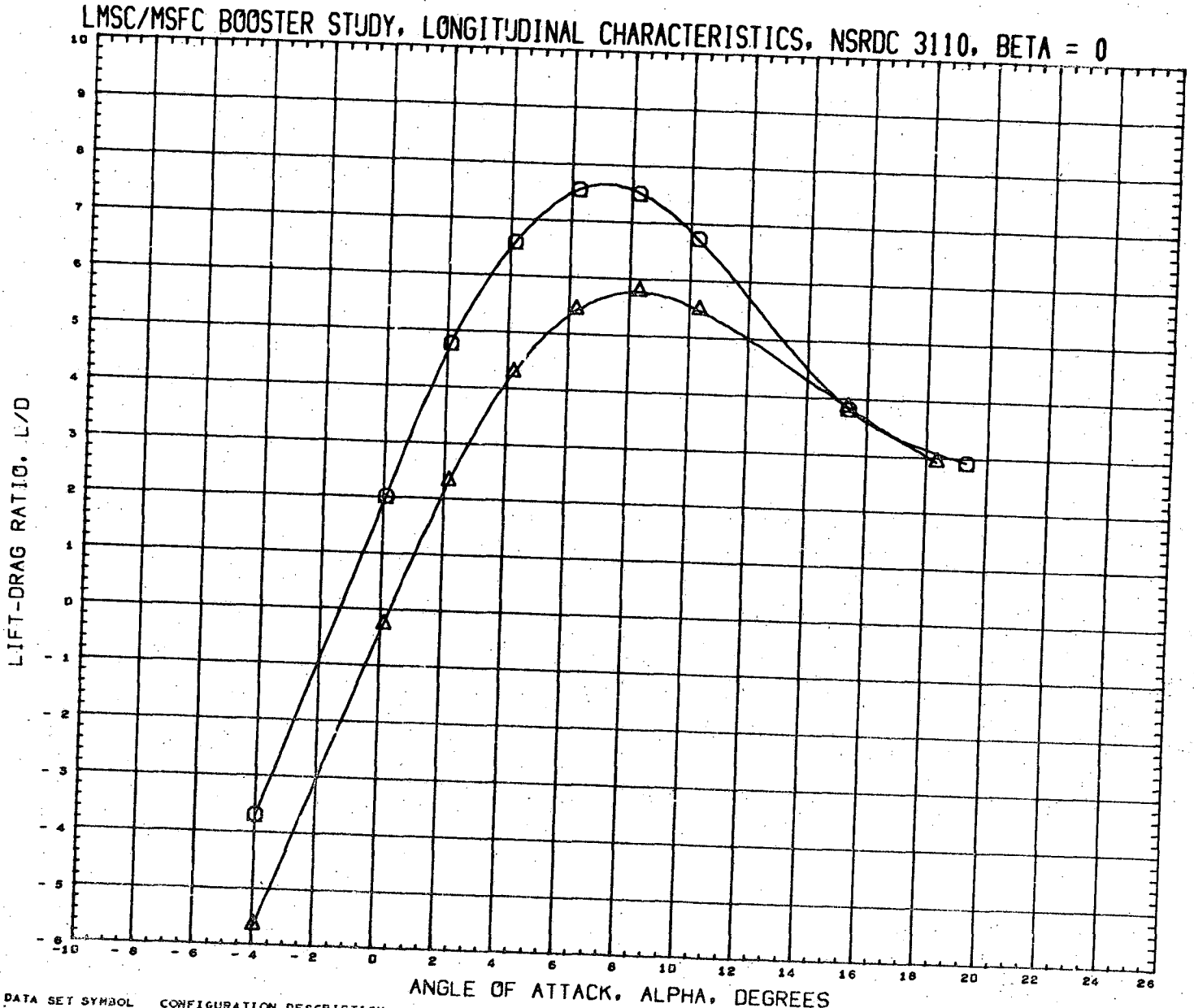
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2073)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2089)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000

MACH 0.381

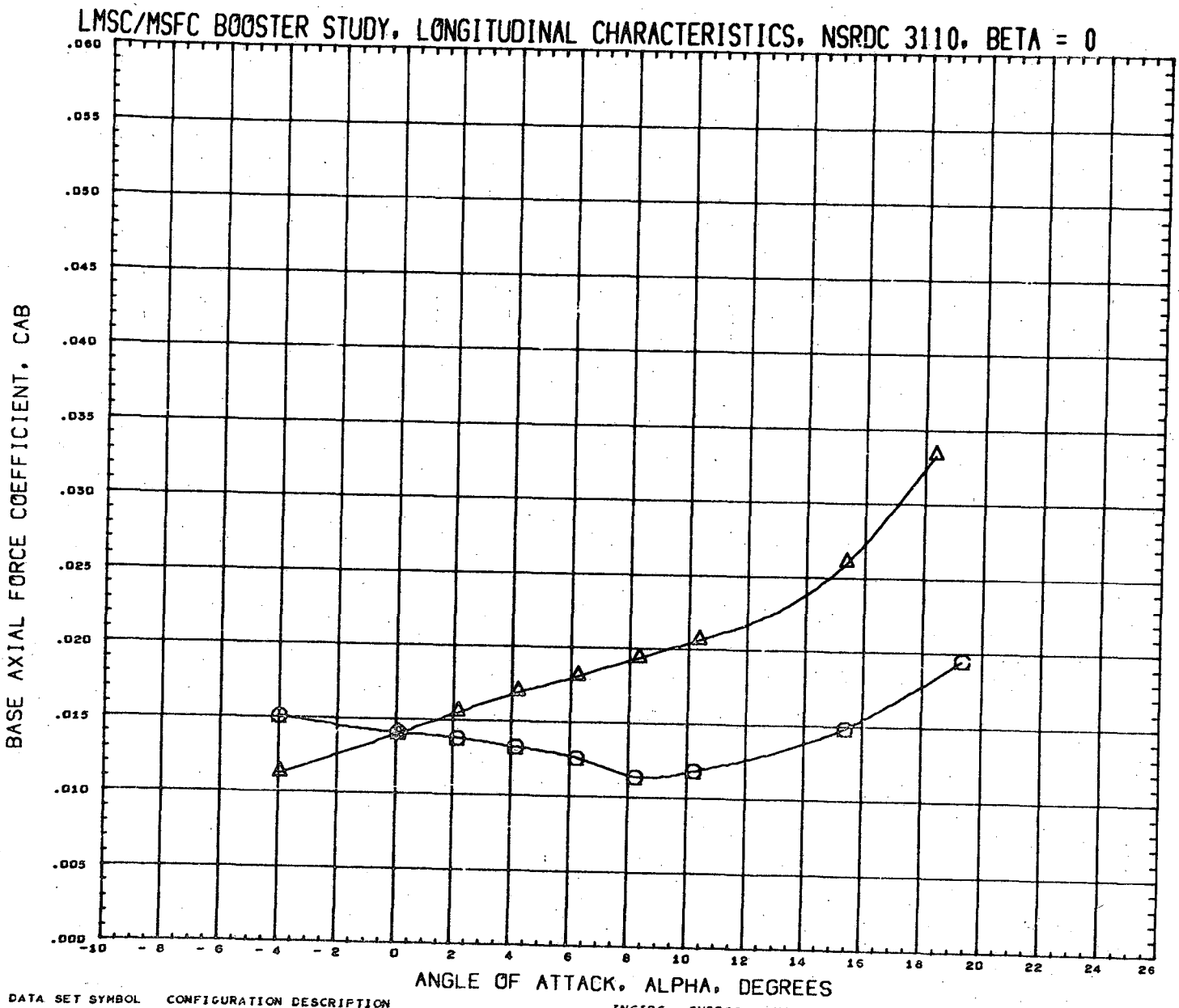
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2073)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2089)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2073)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2089)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

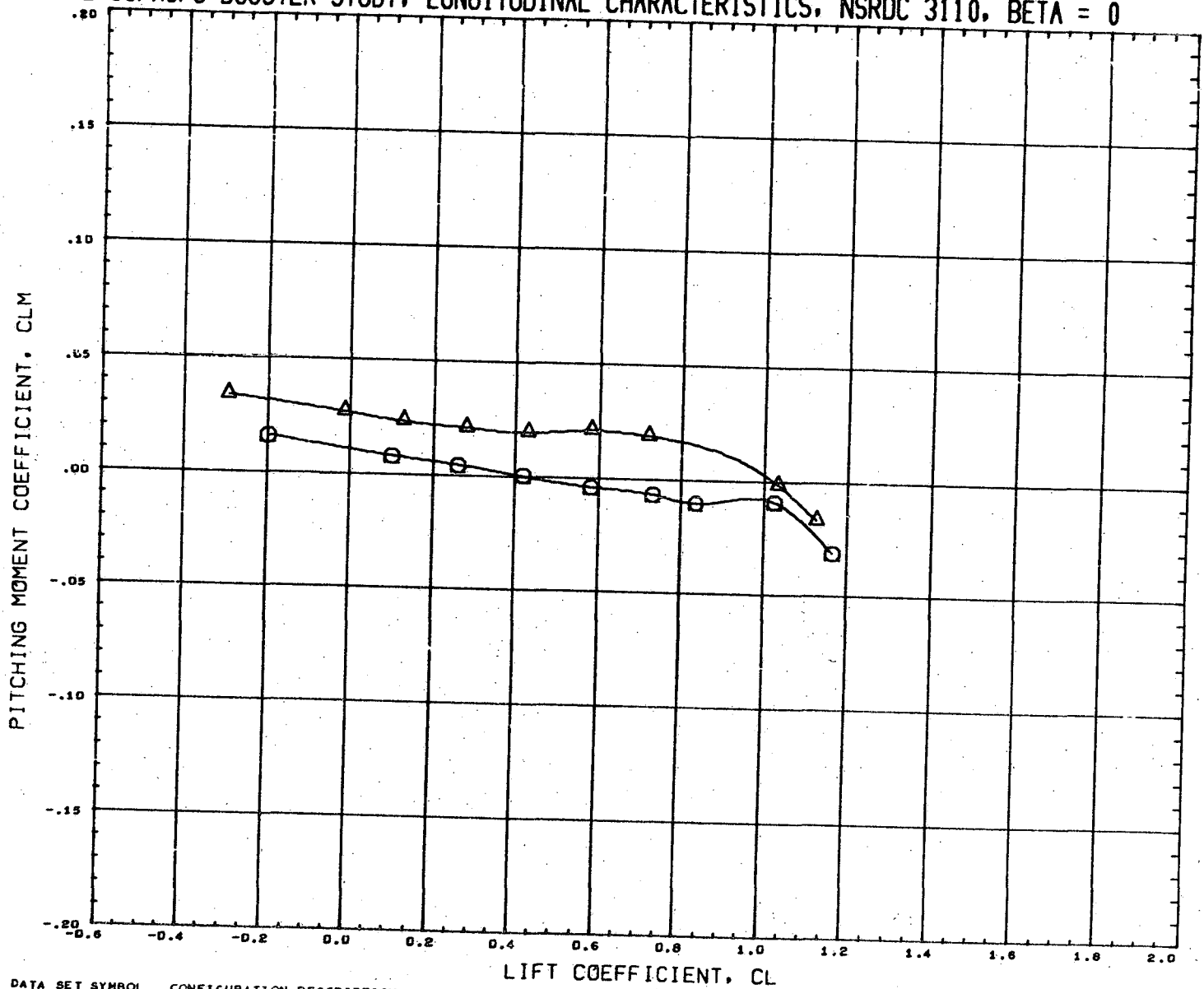
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



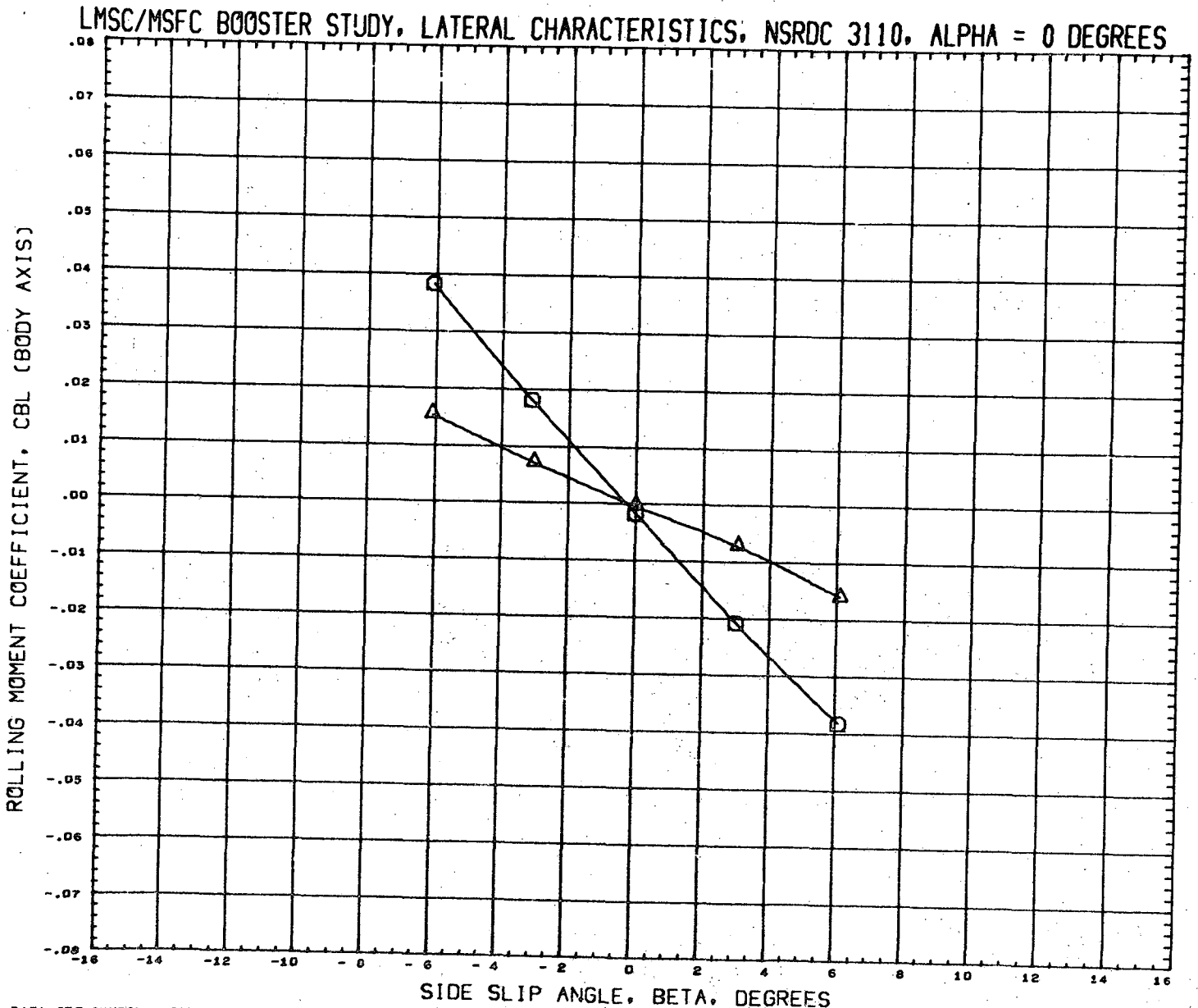
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2073)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2089)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

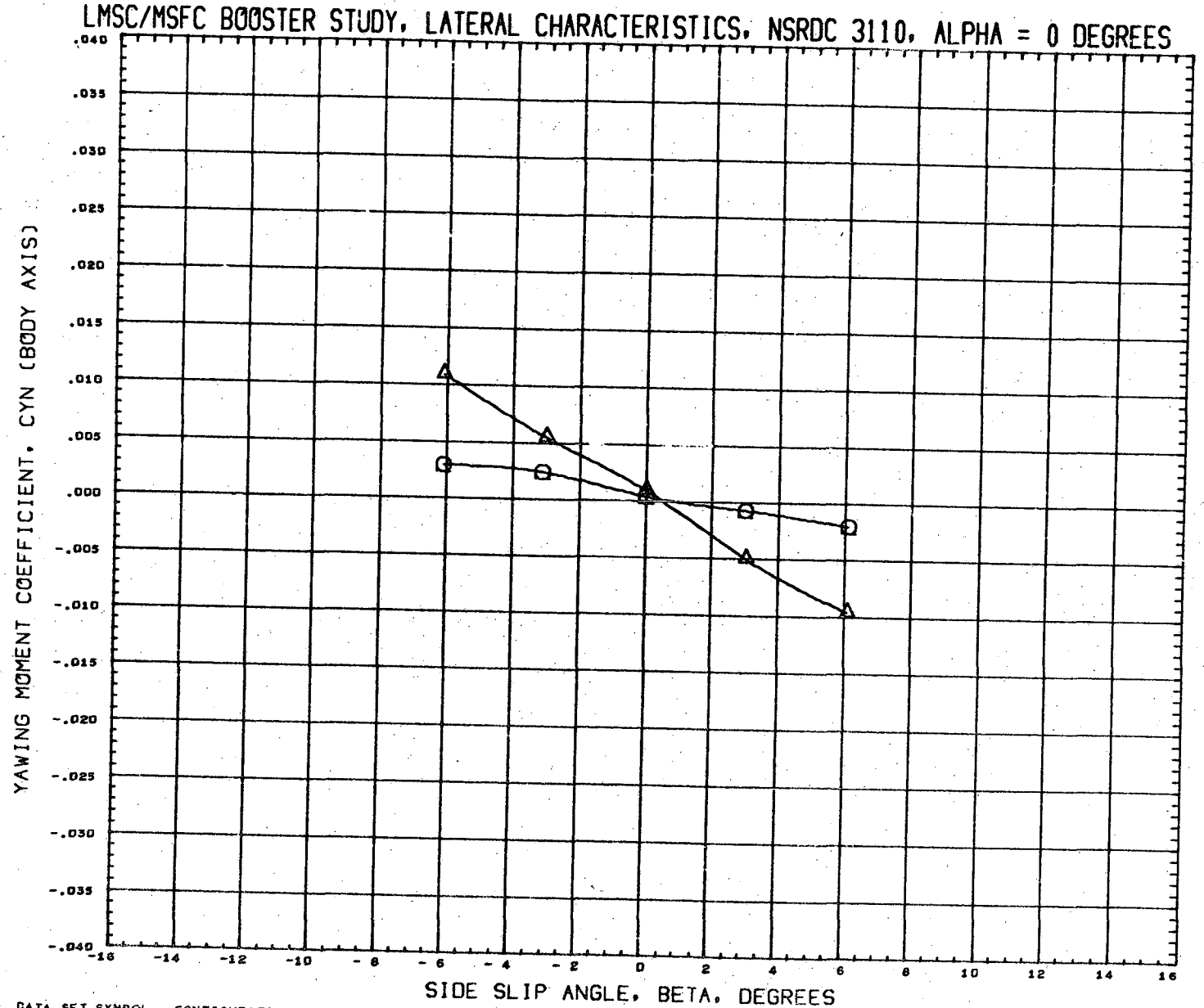


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2076) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2090) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

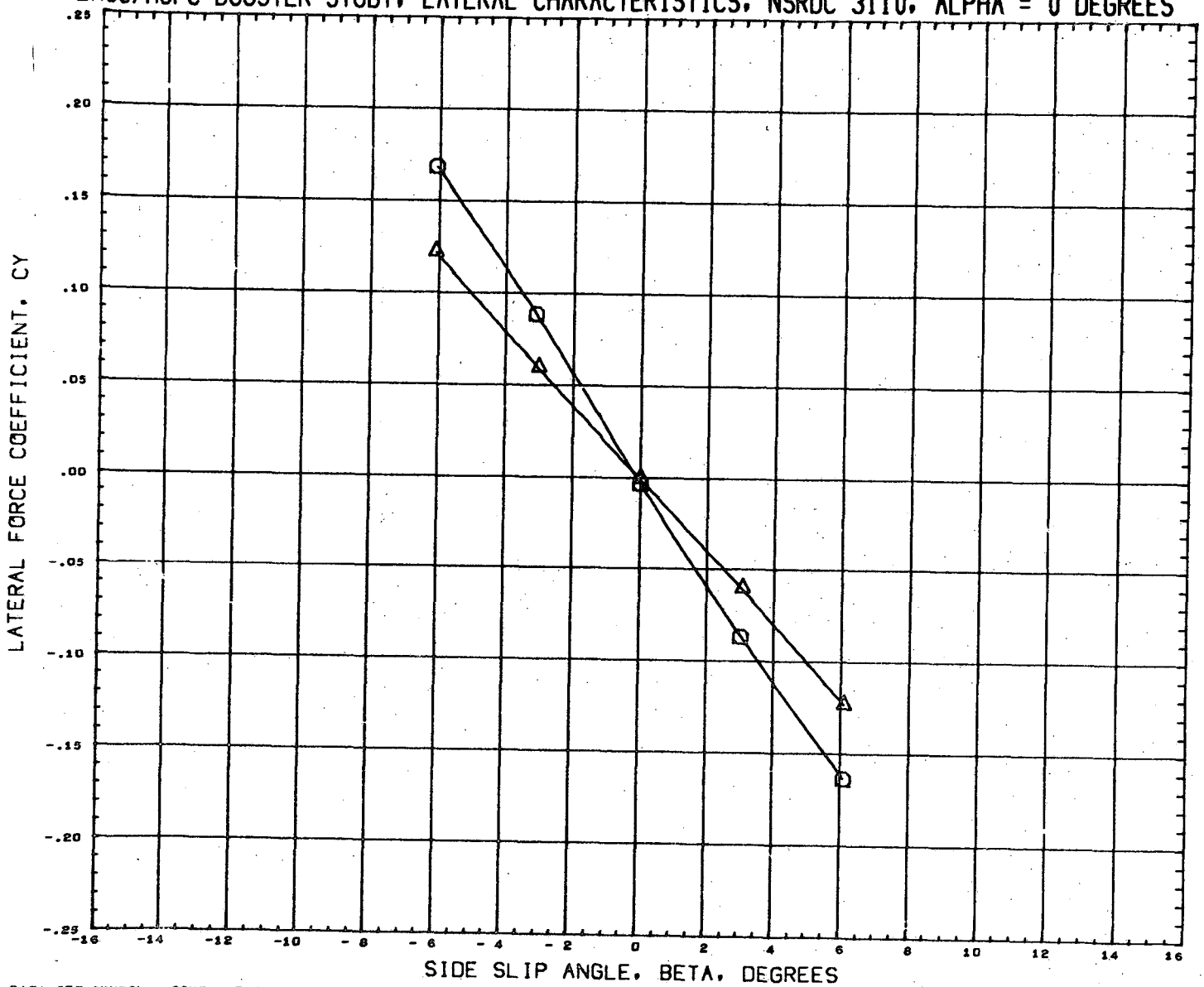


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2074)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2090)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØØSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

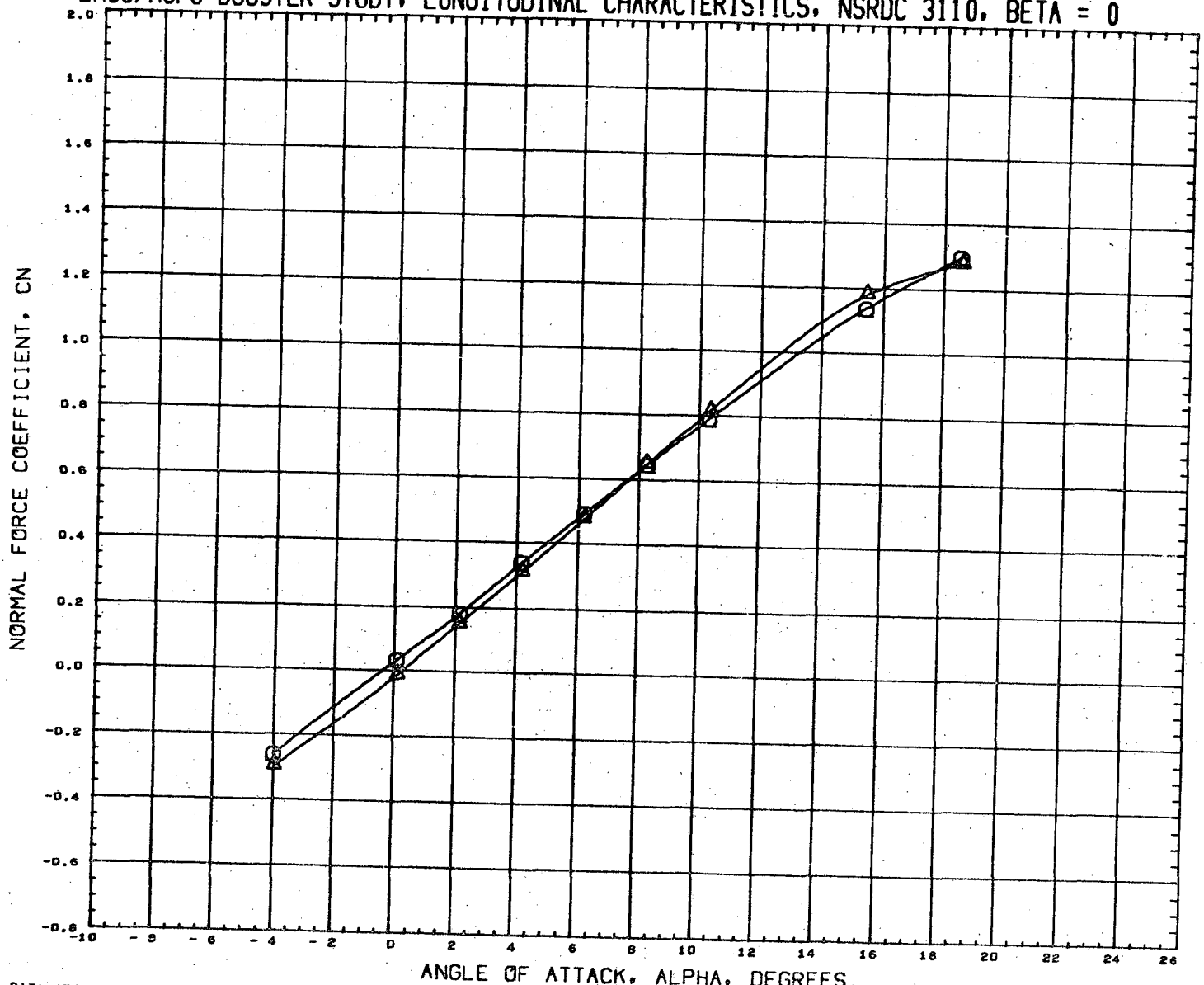


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2074)	Ω	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000
(RN2090)	Δ	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

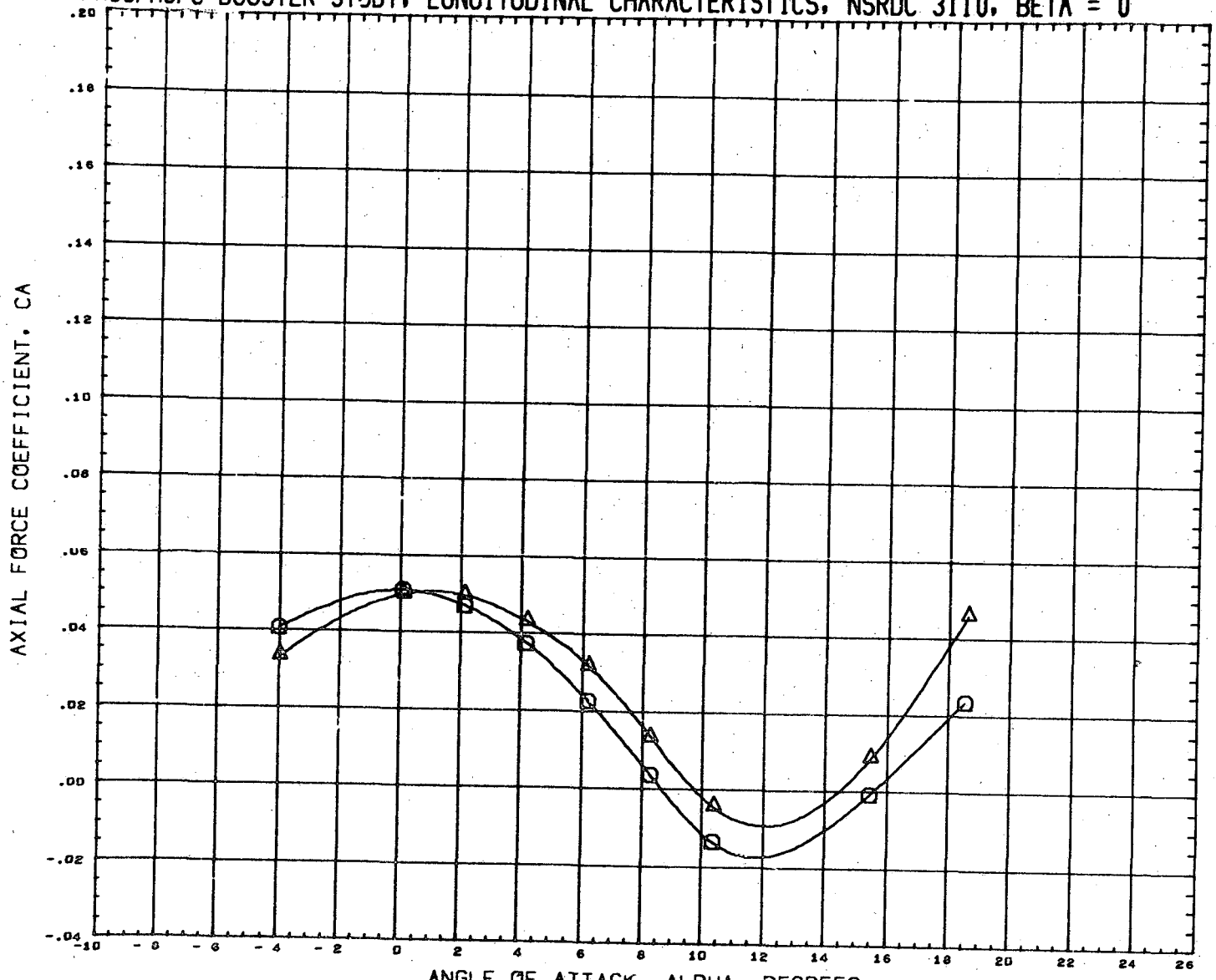


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2129)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000
(RN2145)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

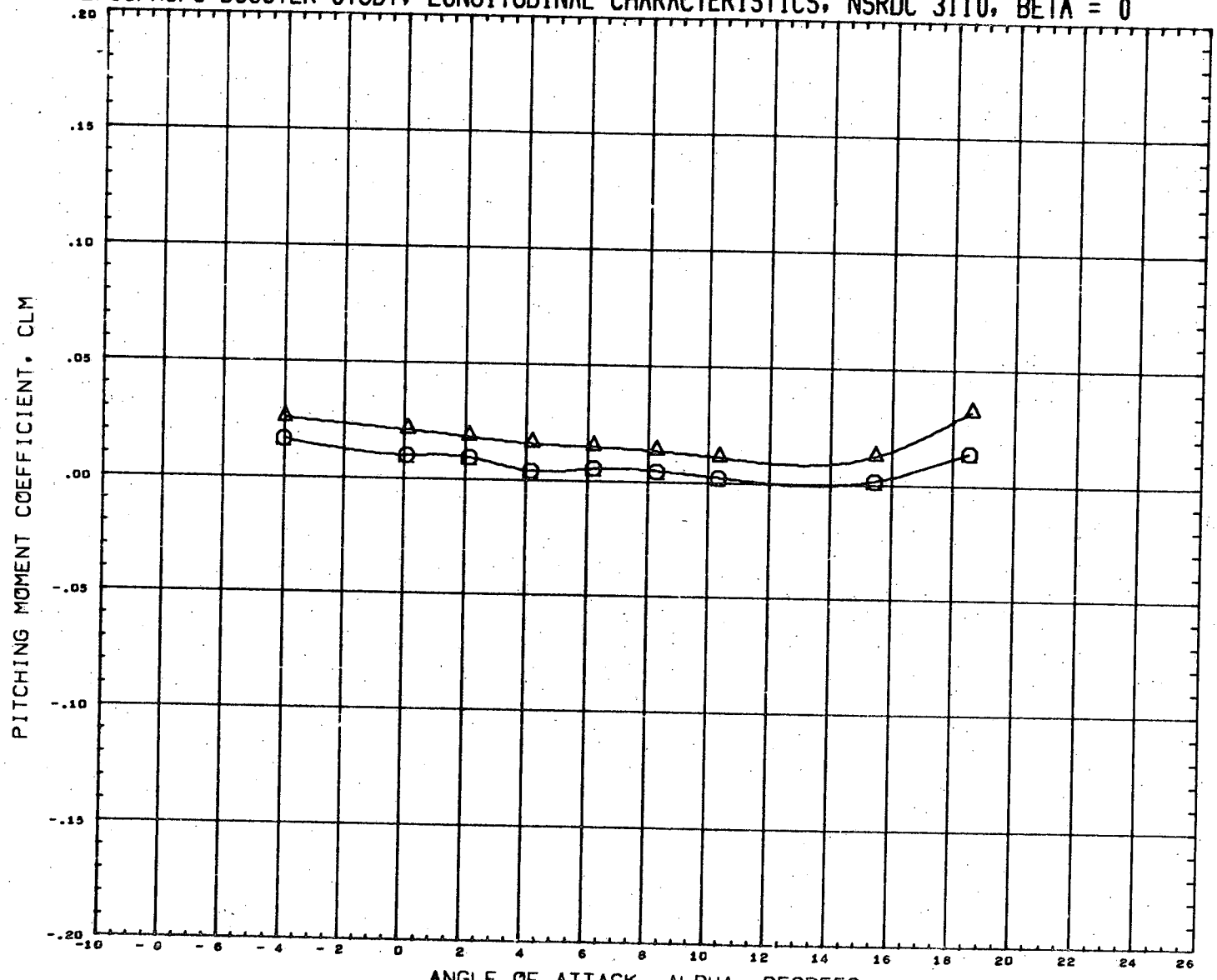


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS
(RN2129)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000
(RN2145)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

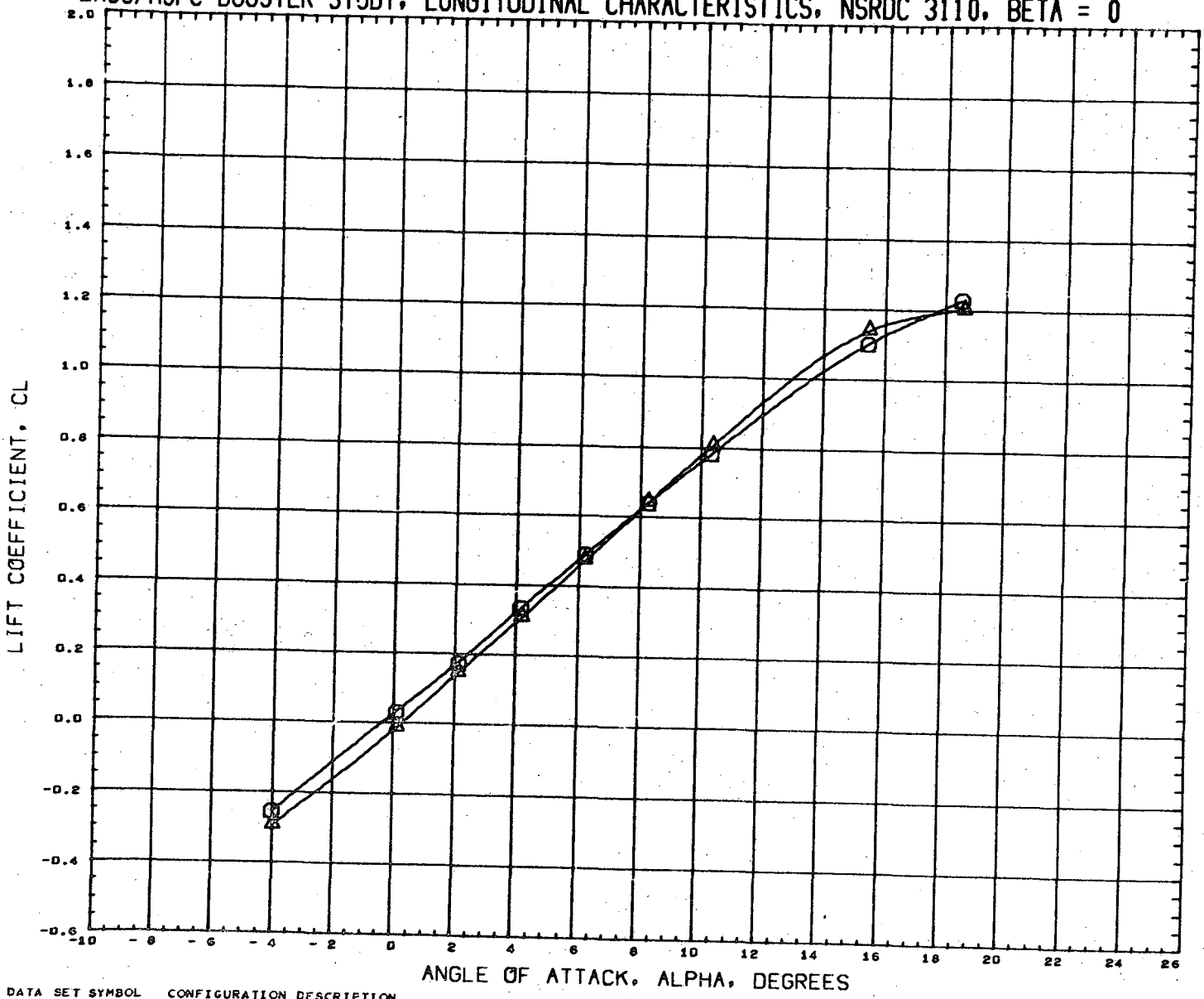


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2129)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000
(RN2145)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2129)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1
(RN2145)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

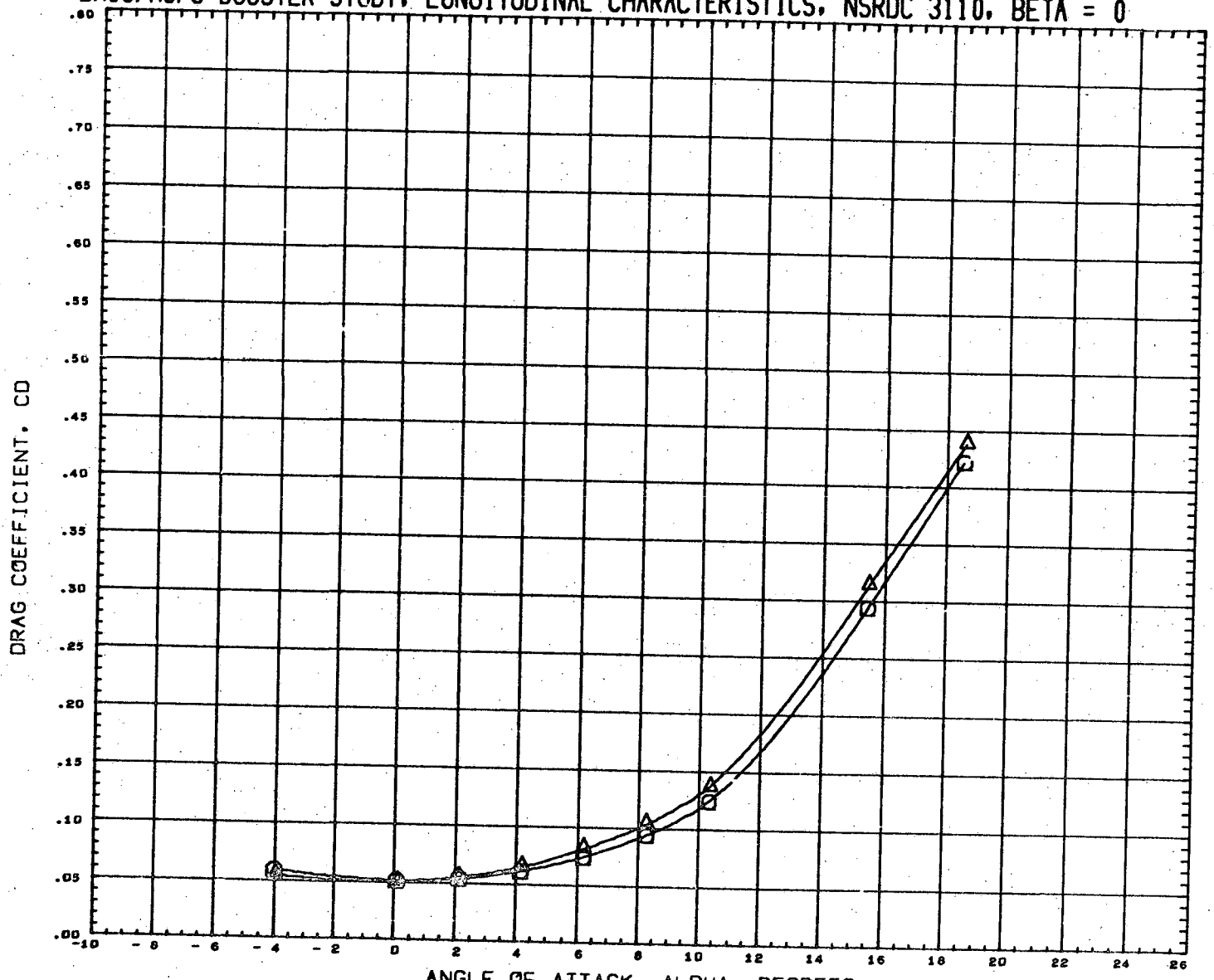
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

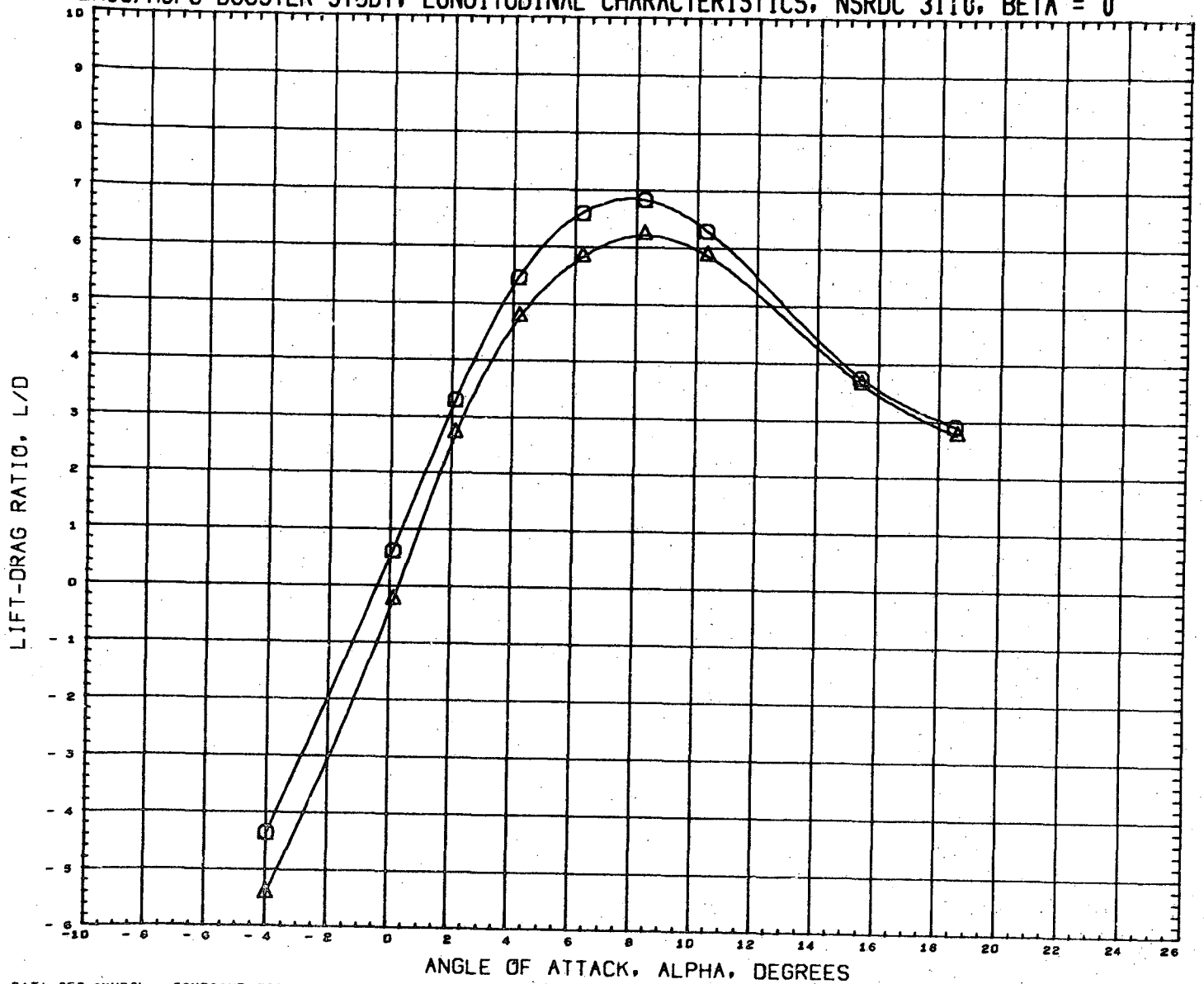


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2129)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000
(RN2145)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

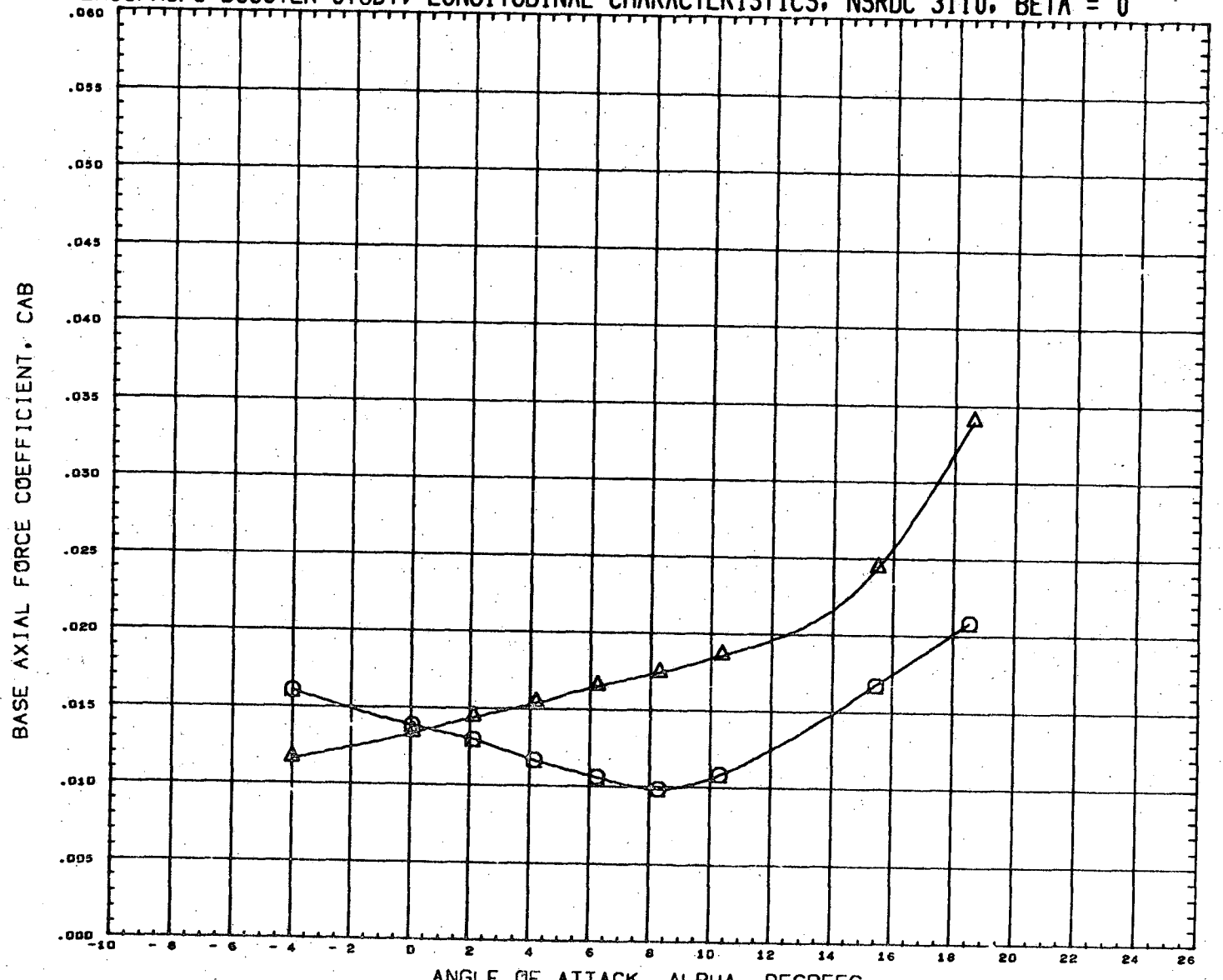


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2129)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000
(RN2145)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

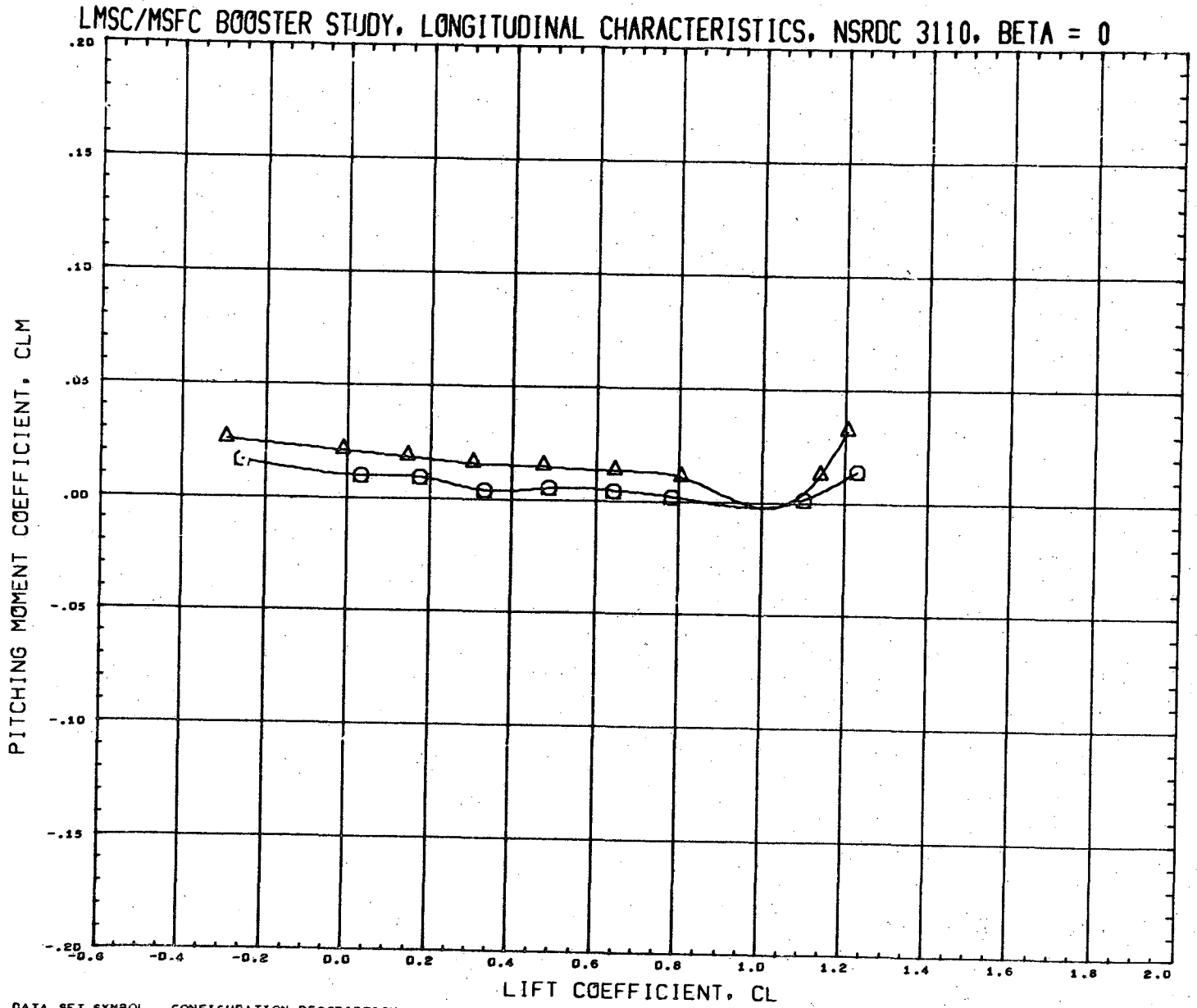
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2129)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000
(RN2145)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

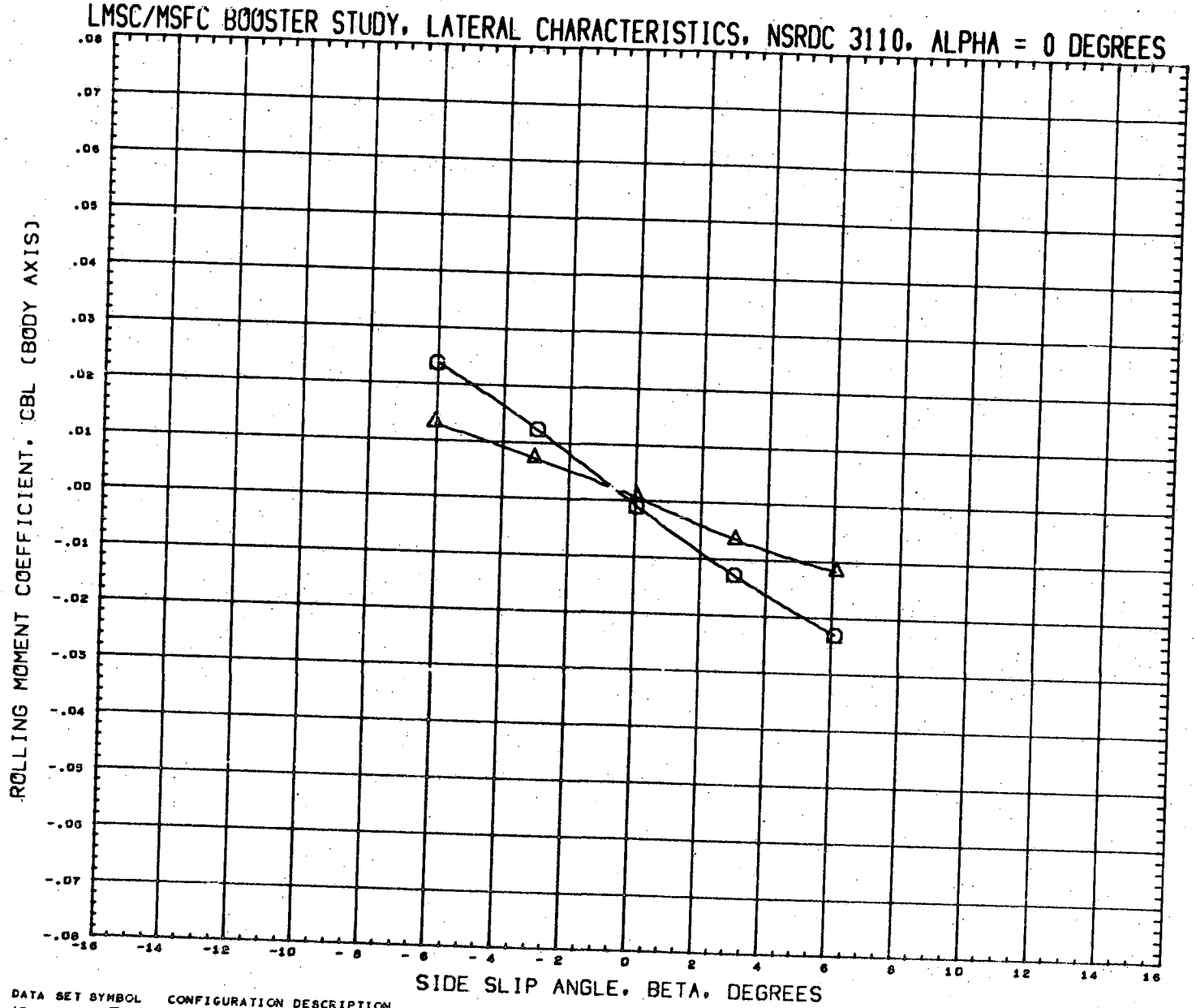


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2129)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000
(RN2145)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

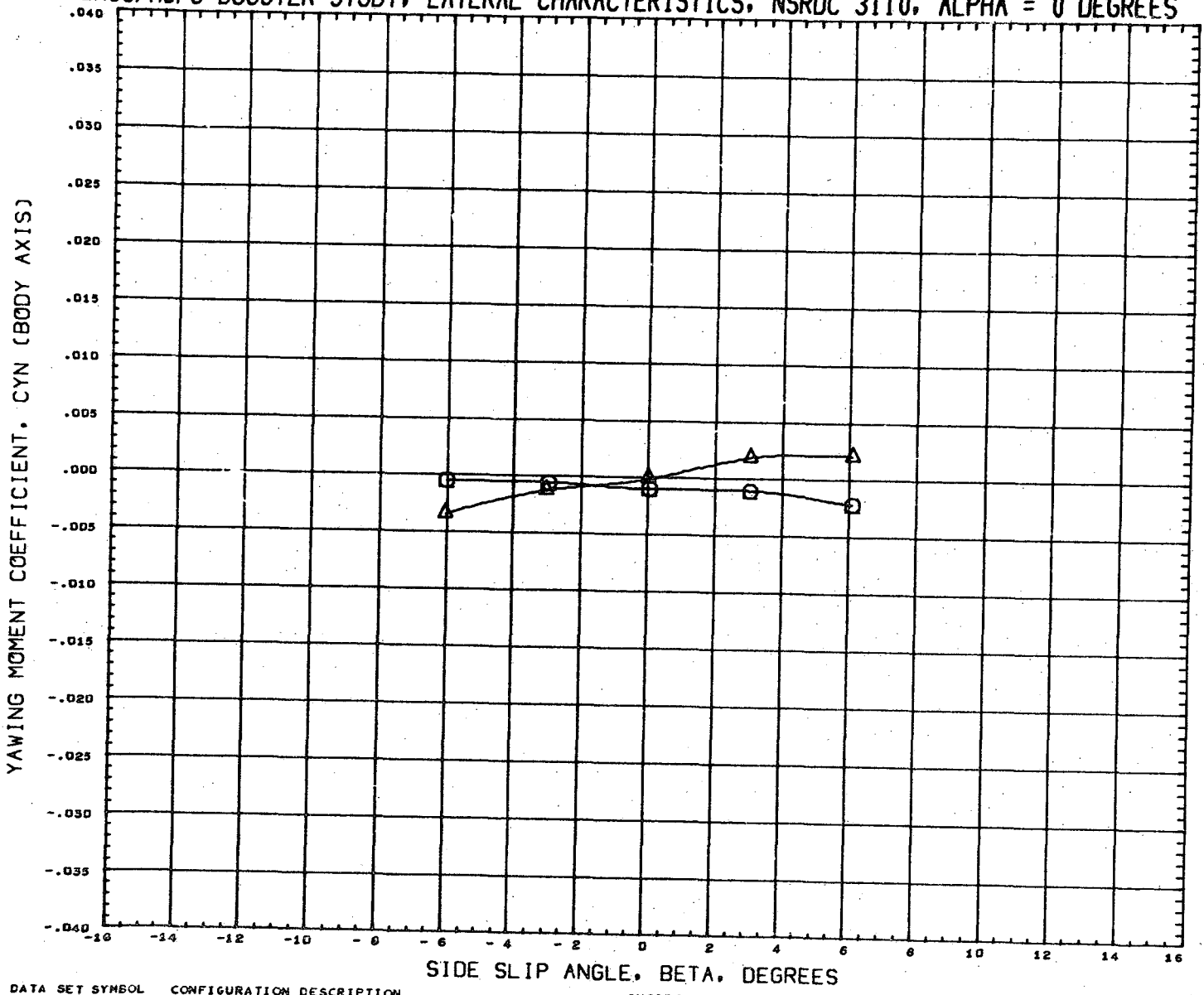


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2130) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000
(RN2146) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

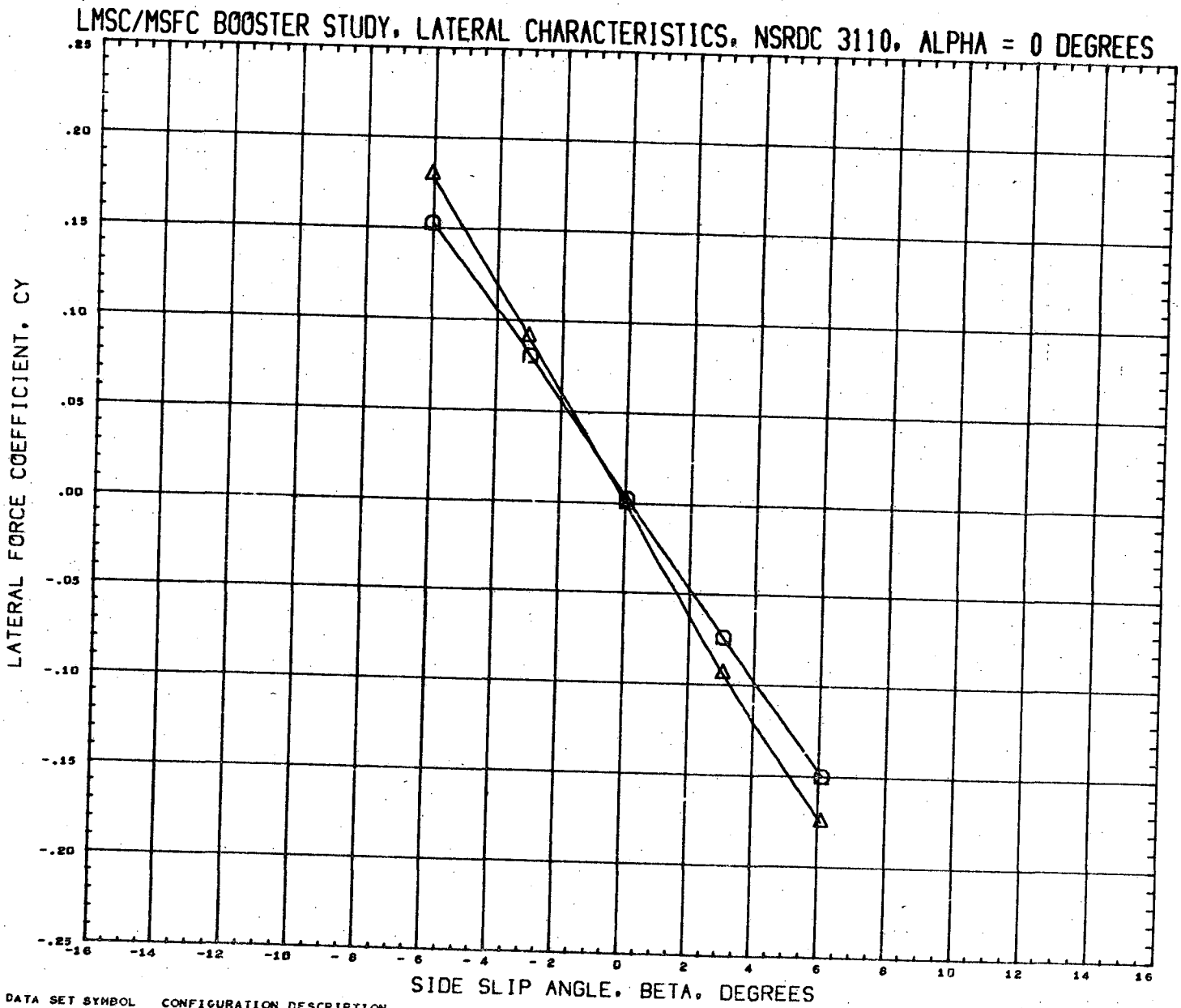
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2130)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000
(RN2146)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



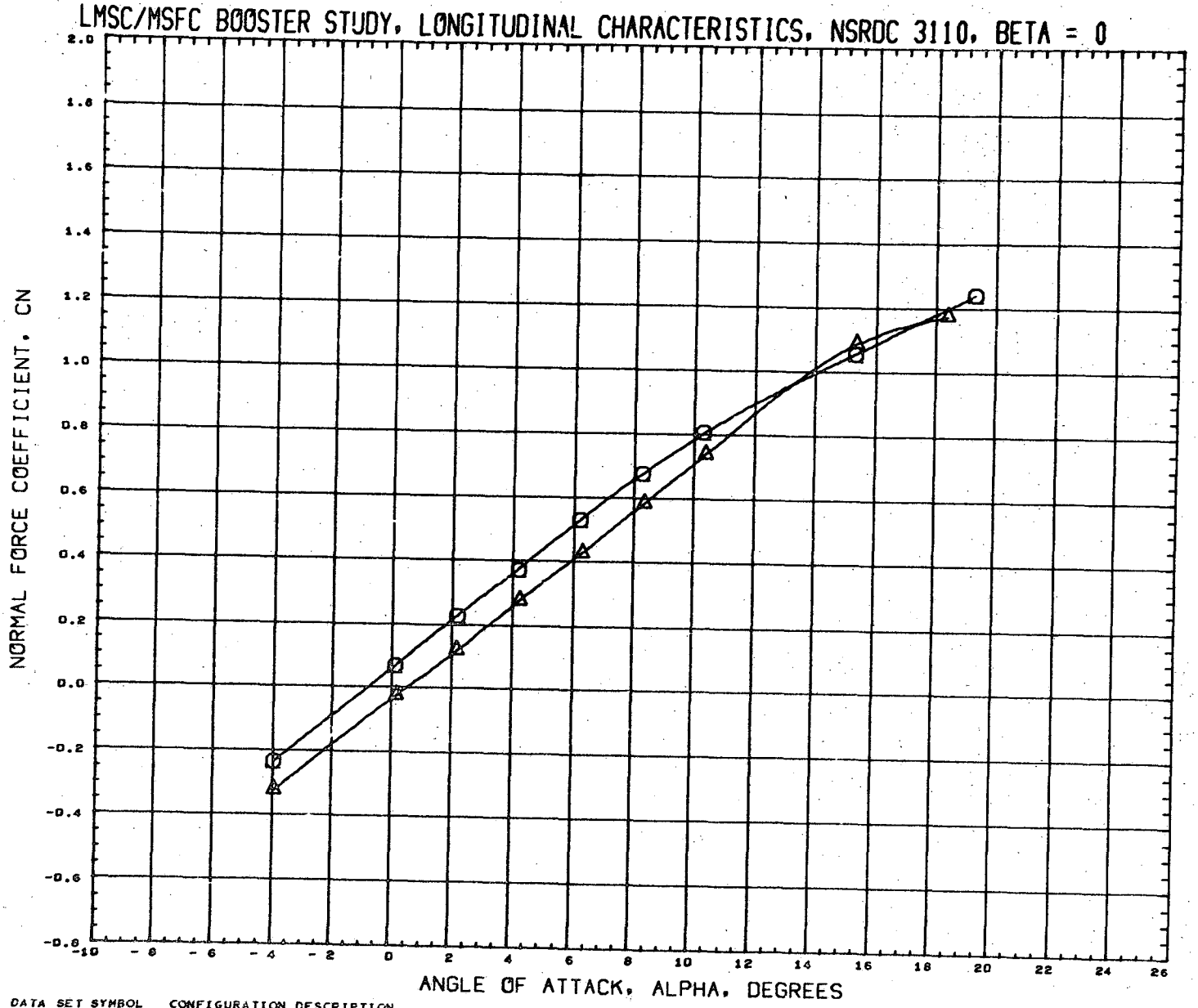
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2130)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1
(RN2146)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

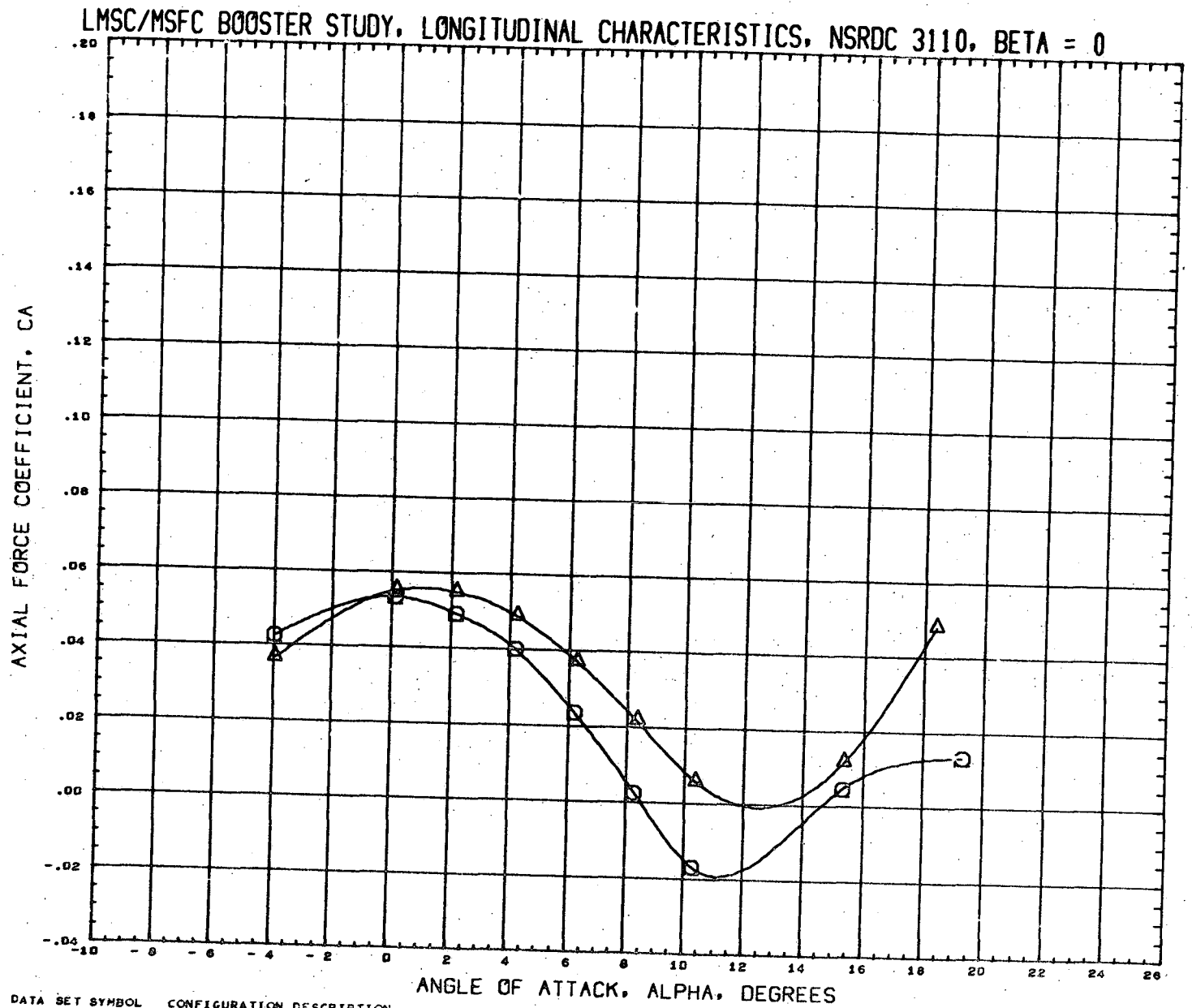
MACH 0.360



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2137)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000
(RN2153)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

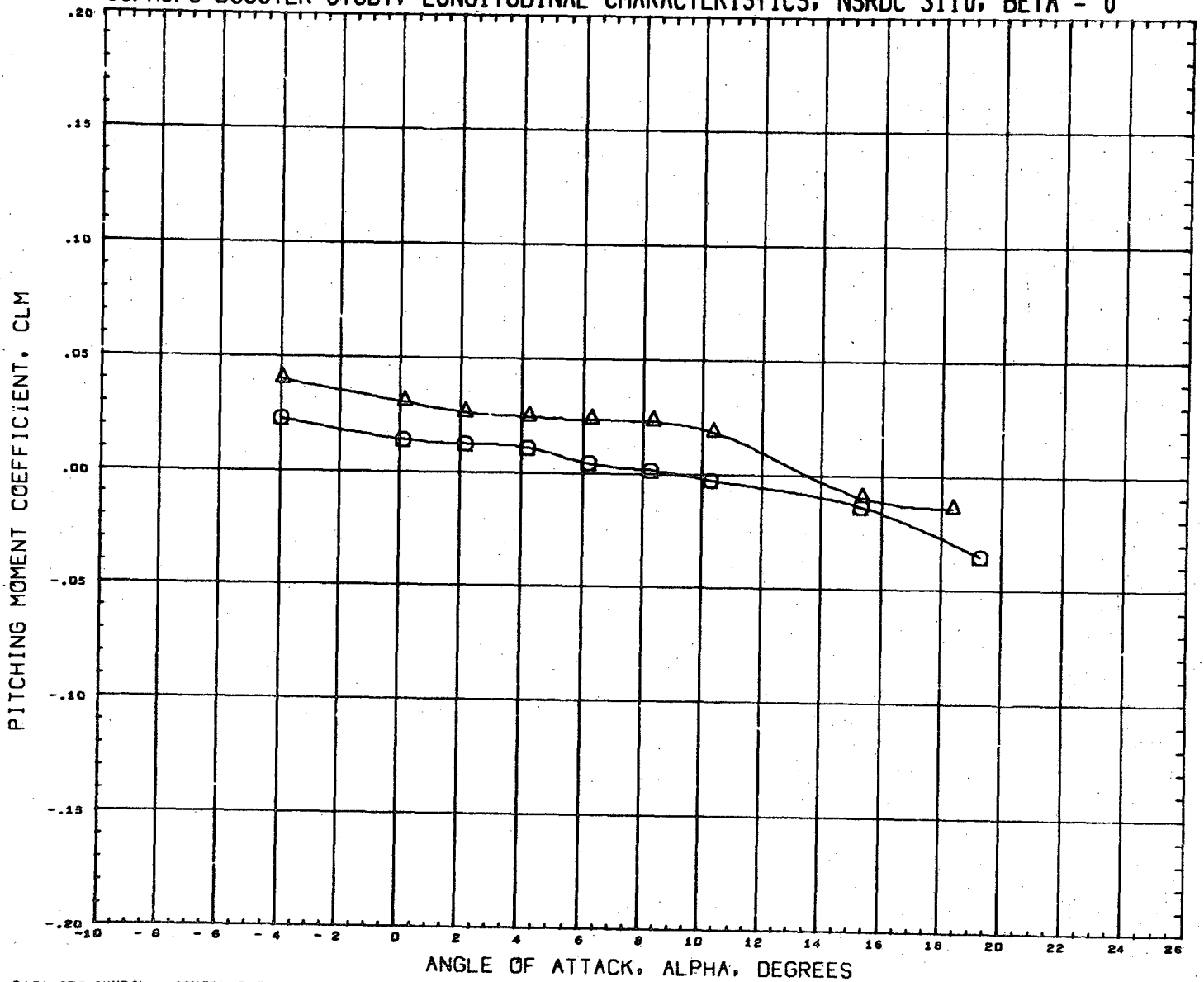


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2137)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000
(RN2153)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

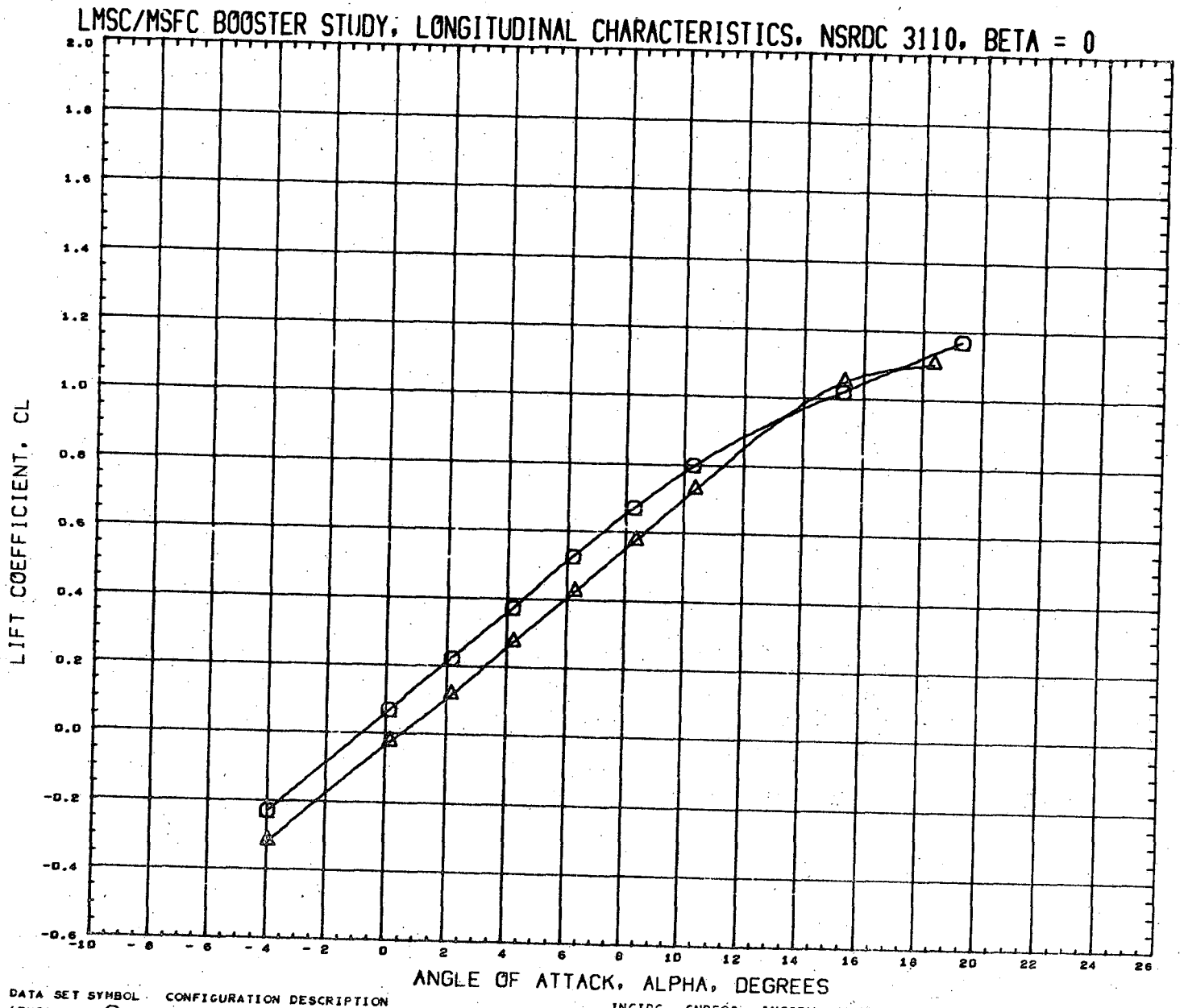


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2137)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000
(RN2153)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

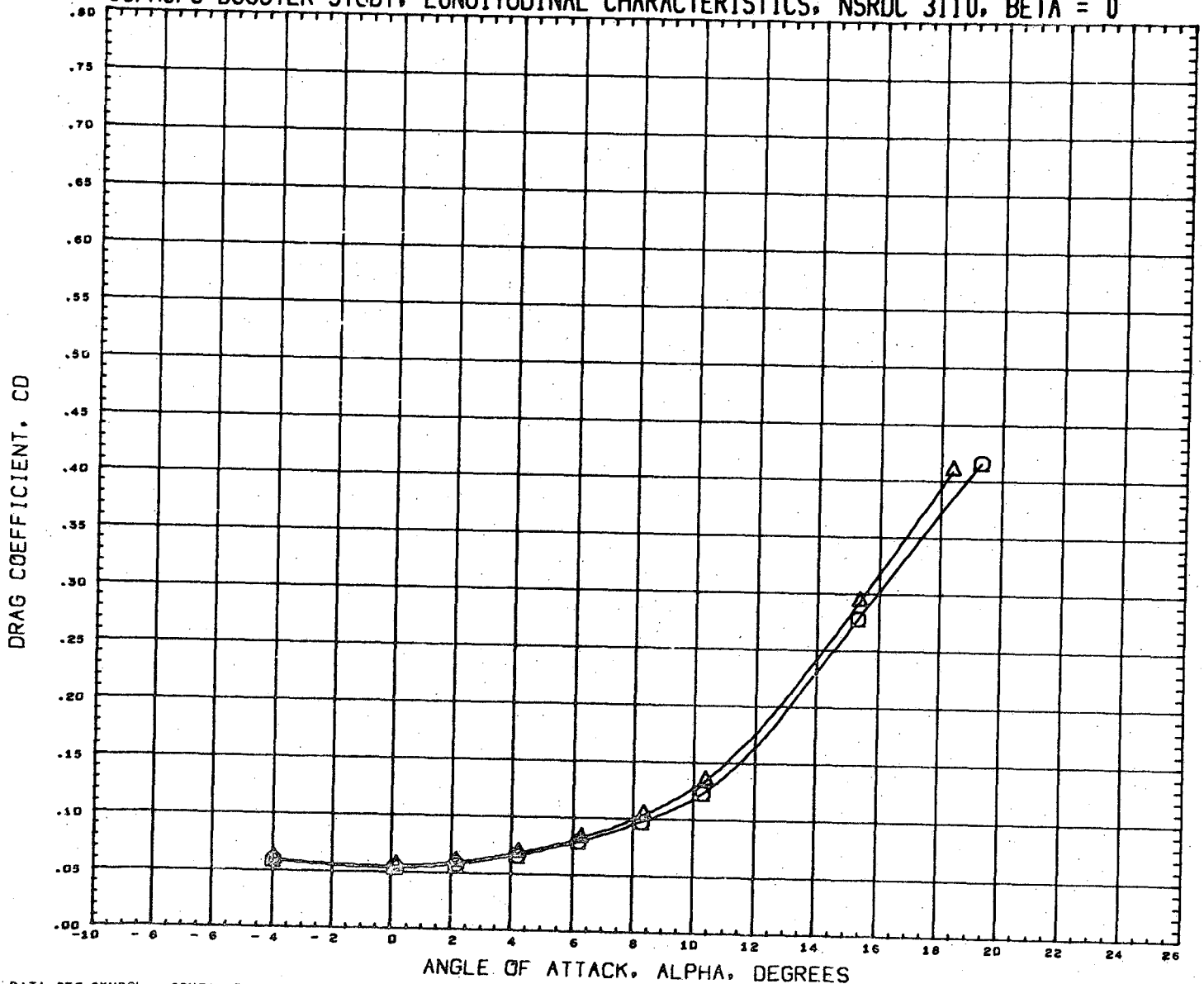


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS
(RN2137)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000
(RN2153)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

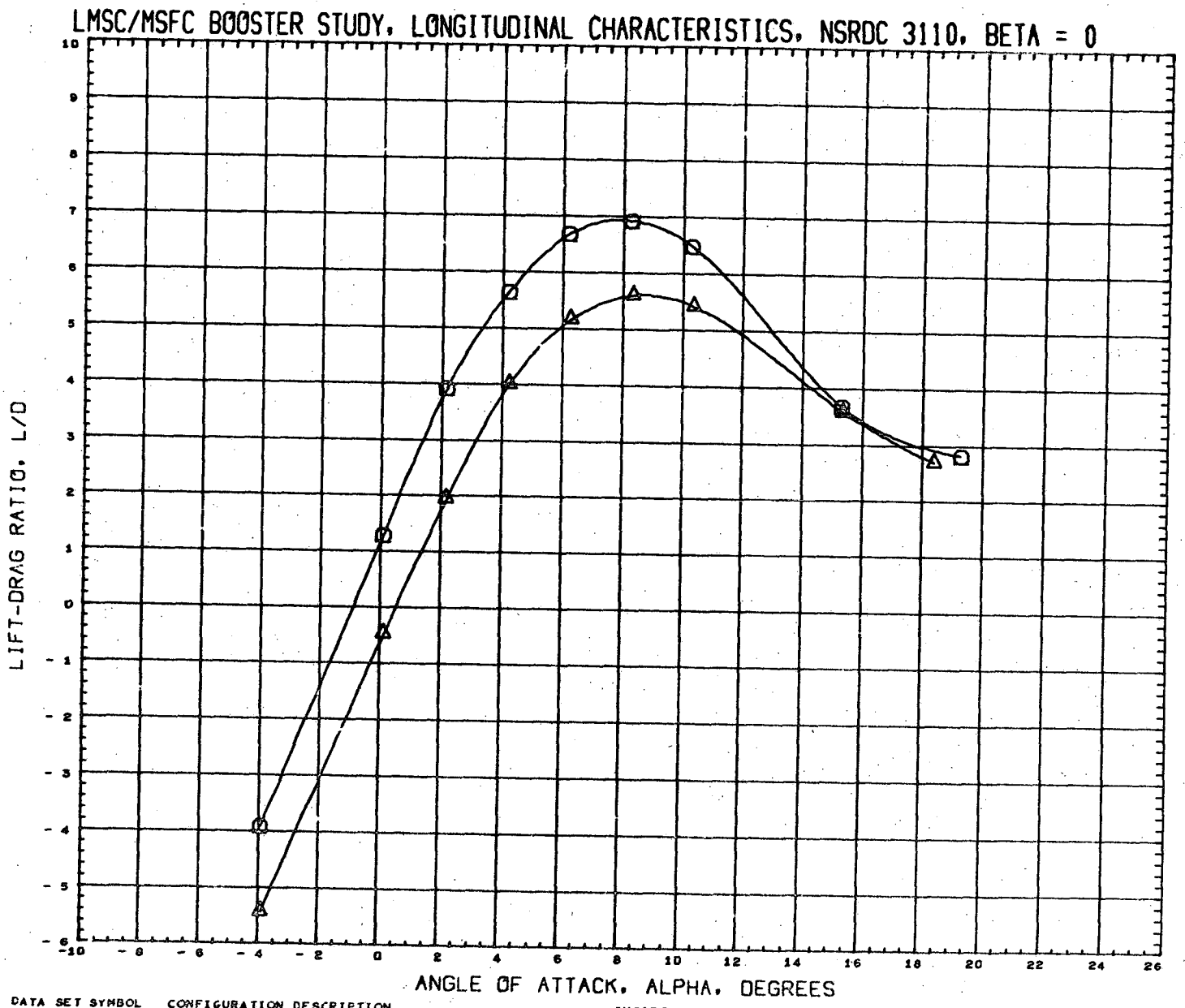
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2137)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000
(RN2153)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



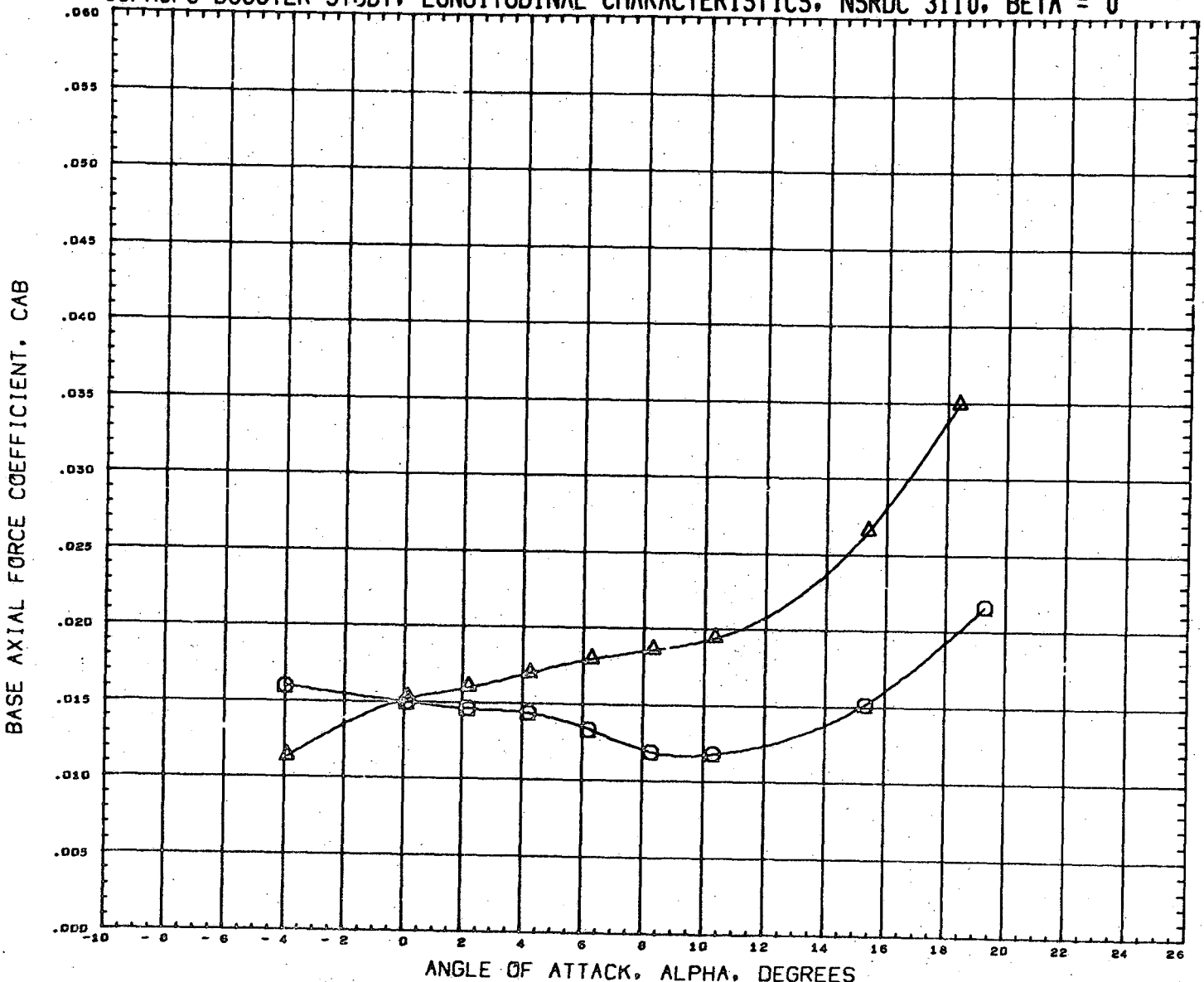
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2137)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1
(RN2153)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

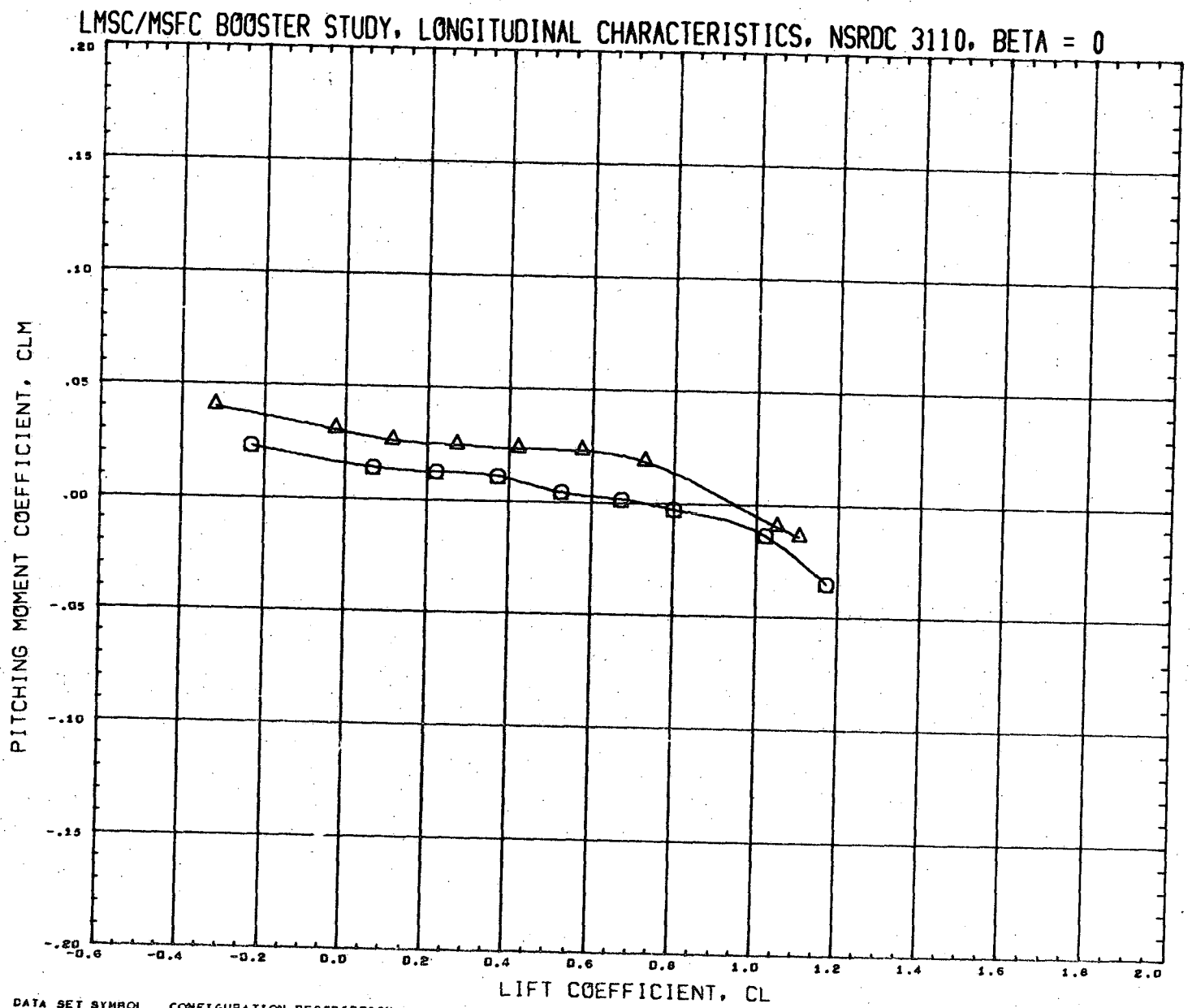
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2137)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000
(RN2153)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



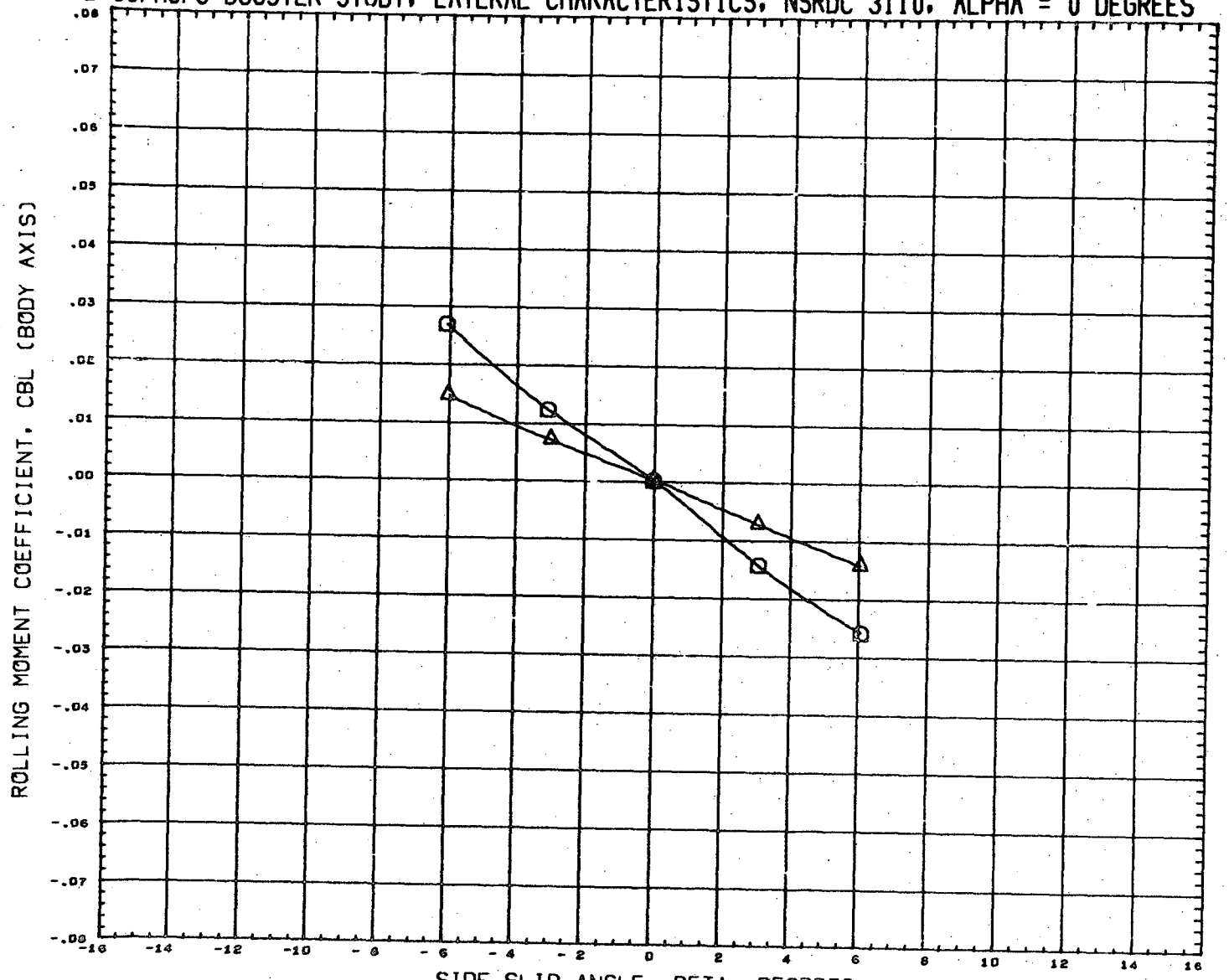
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2137)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000
(RN2153)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

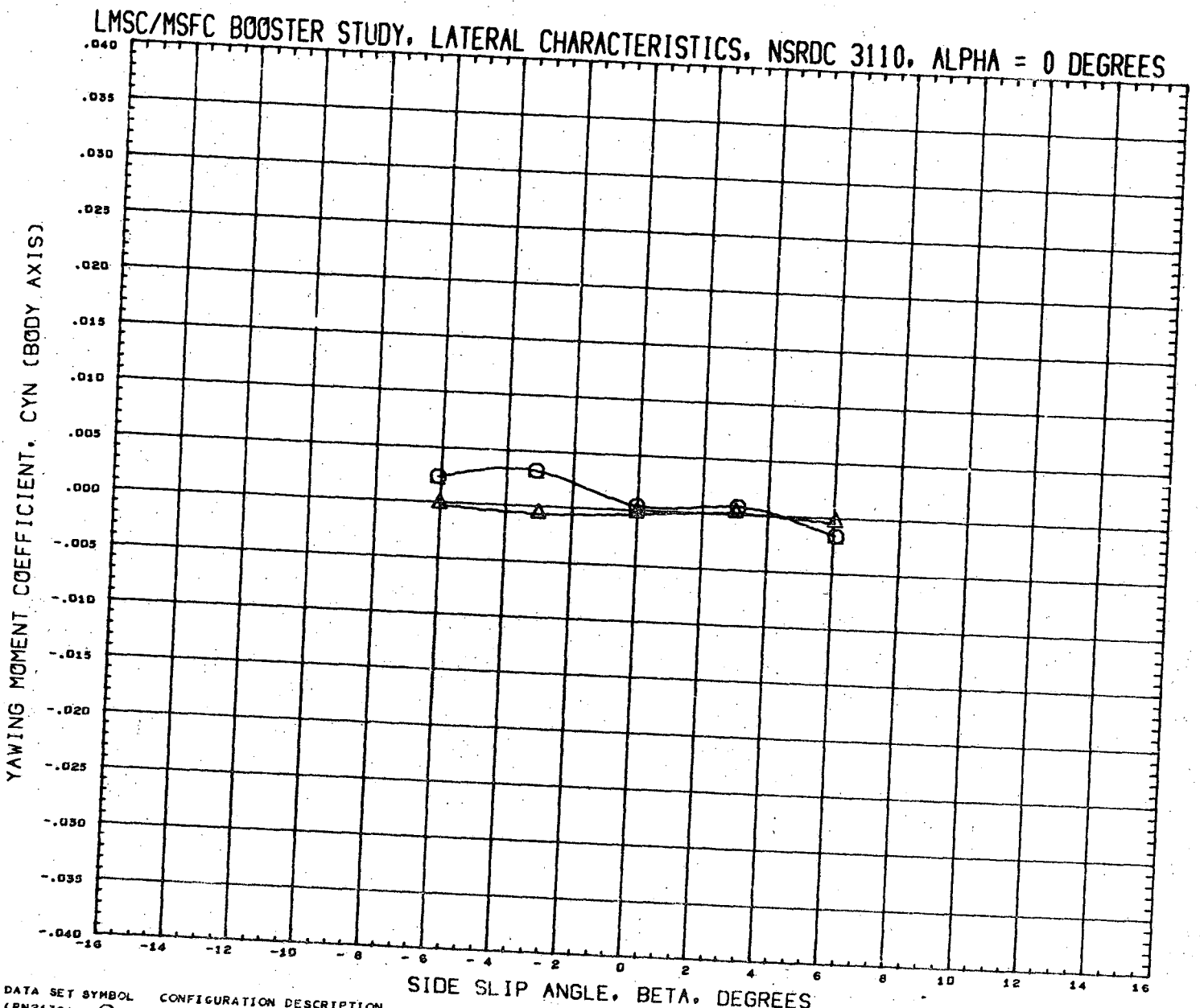
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS
(RN2138)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000
(RN2154)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



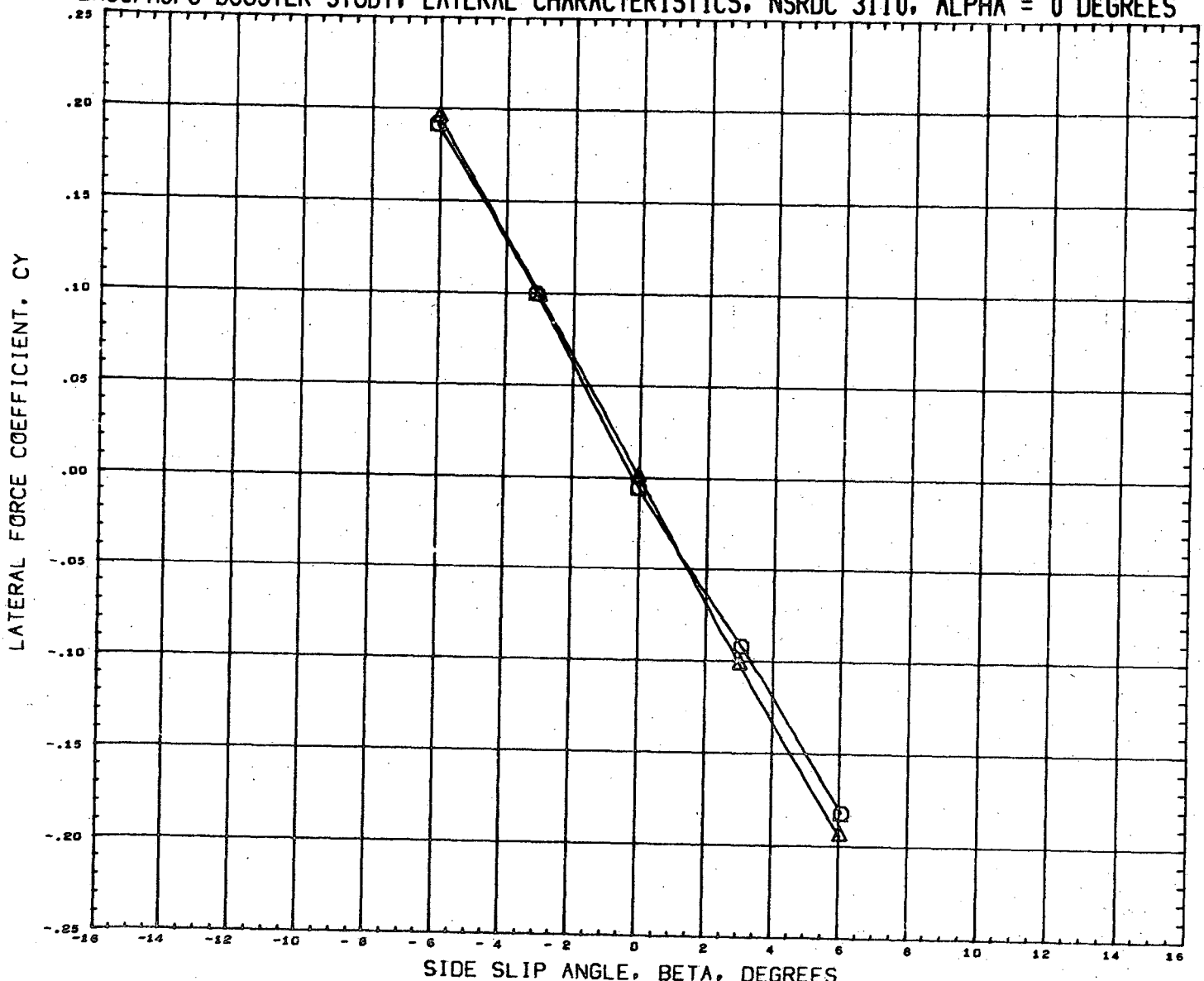
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2138)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000
(RN2154)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

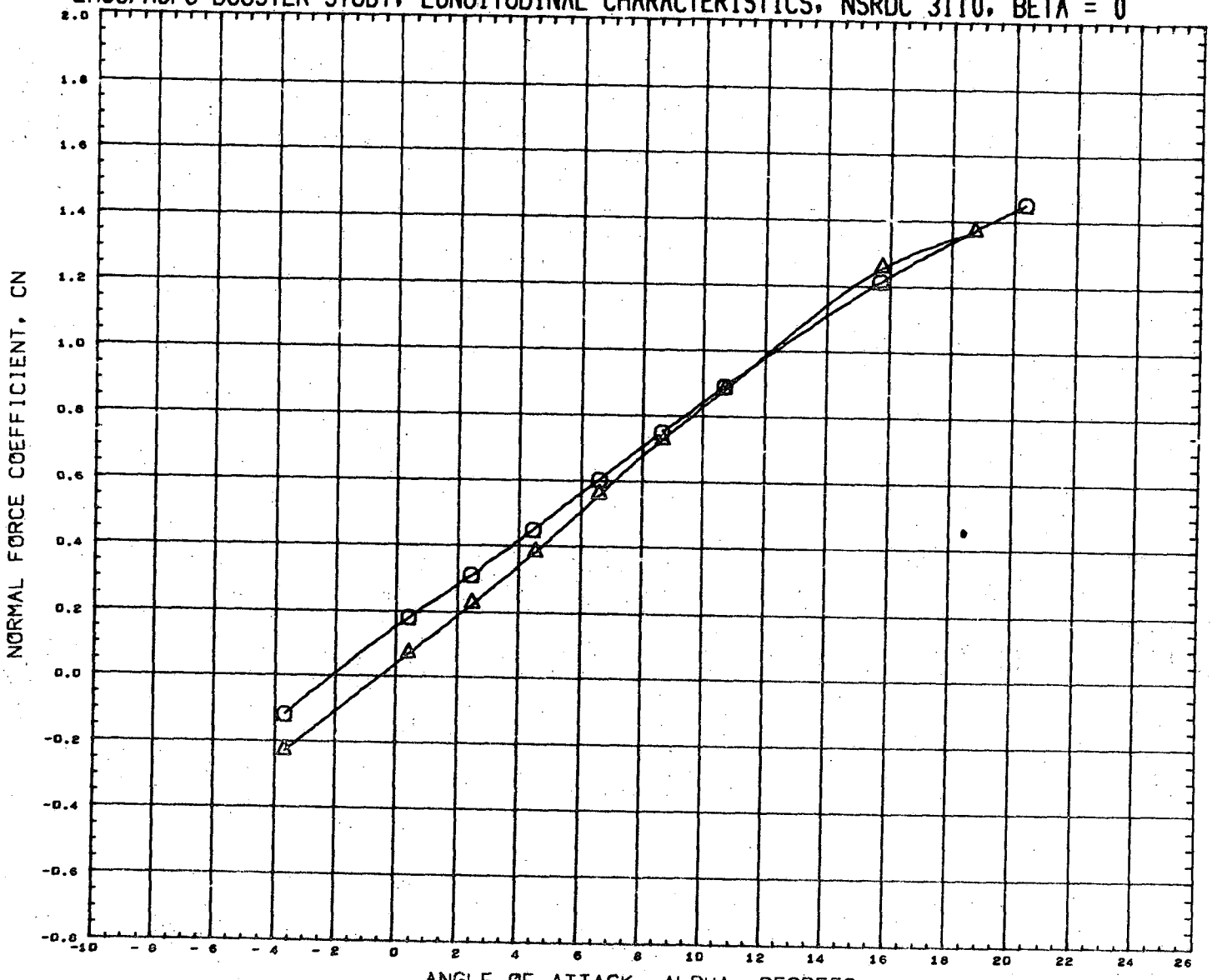


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2138)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000
(RN2154)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

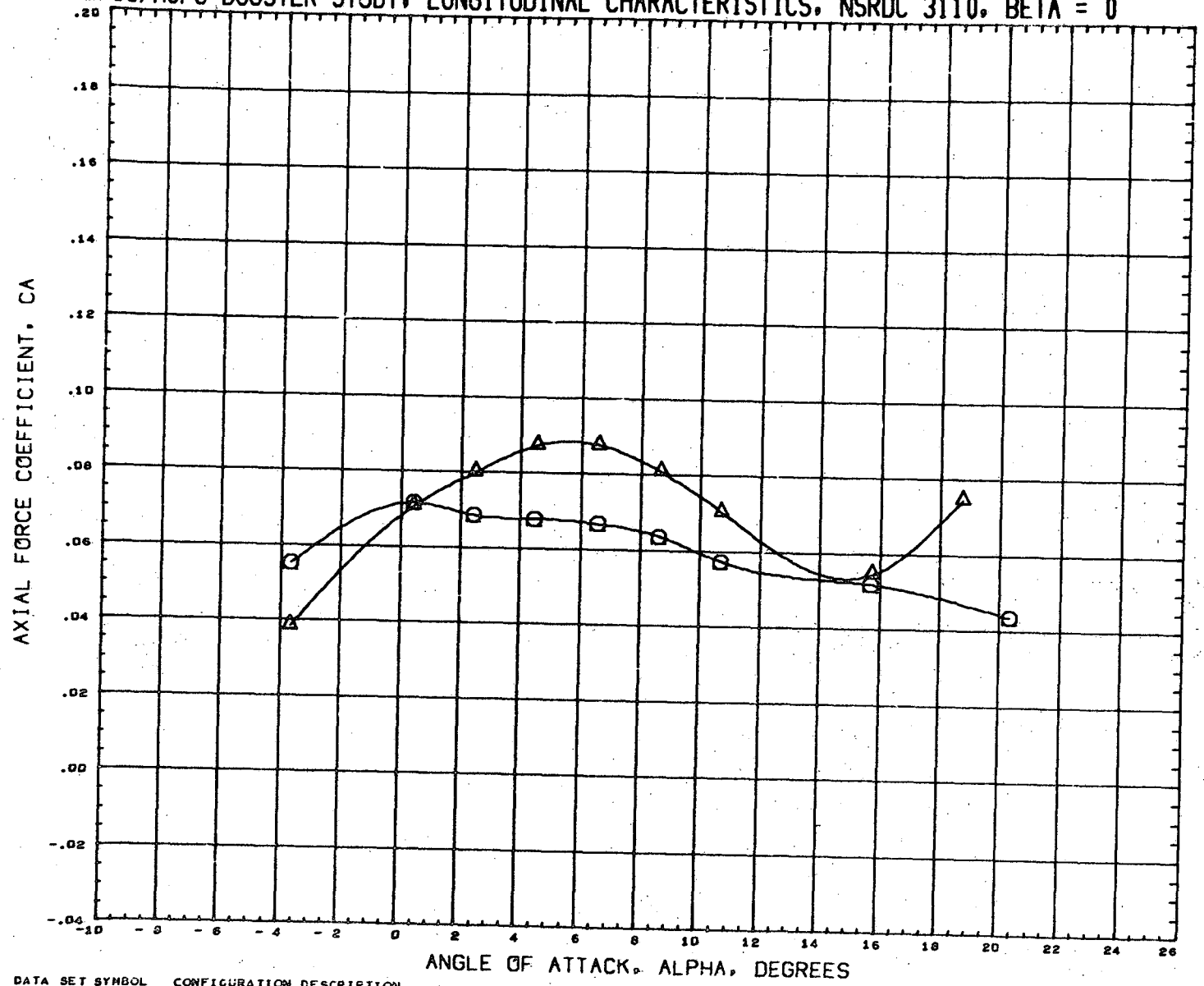


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2065)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

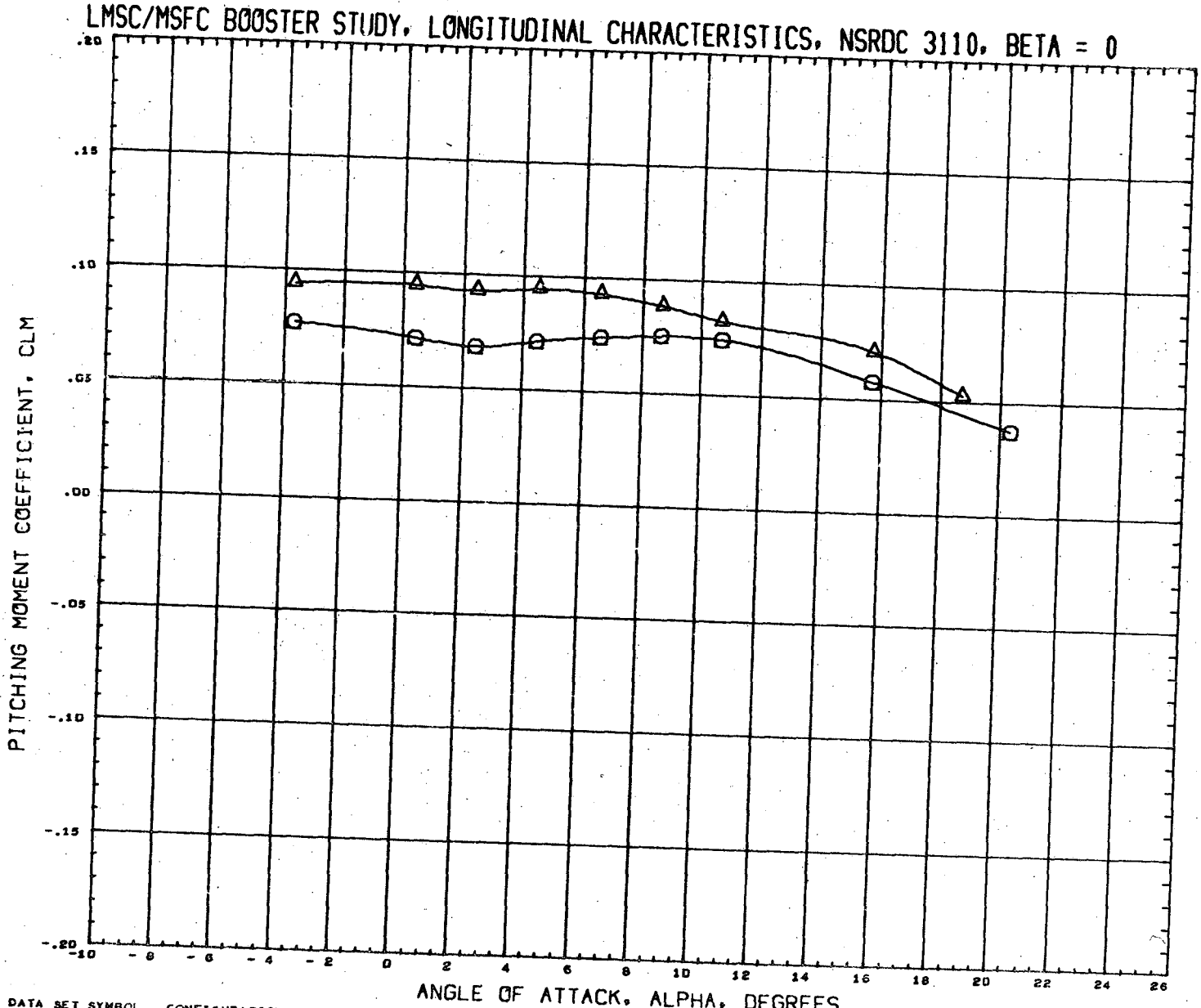
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2085)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

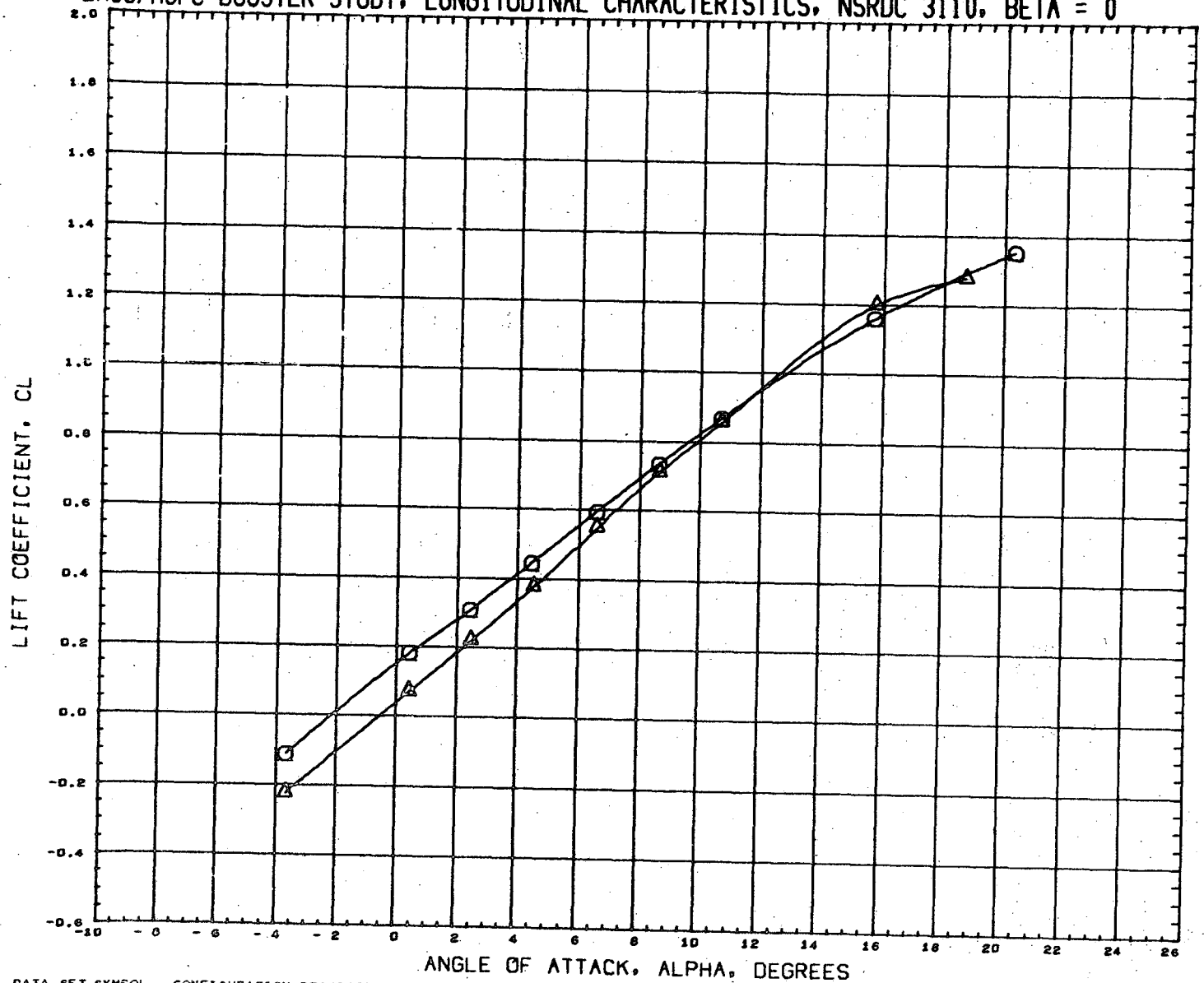


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2085)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



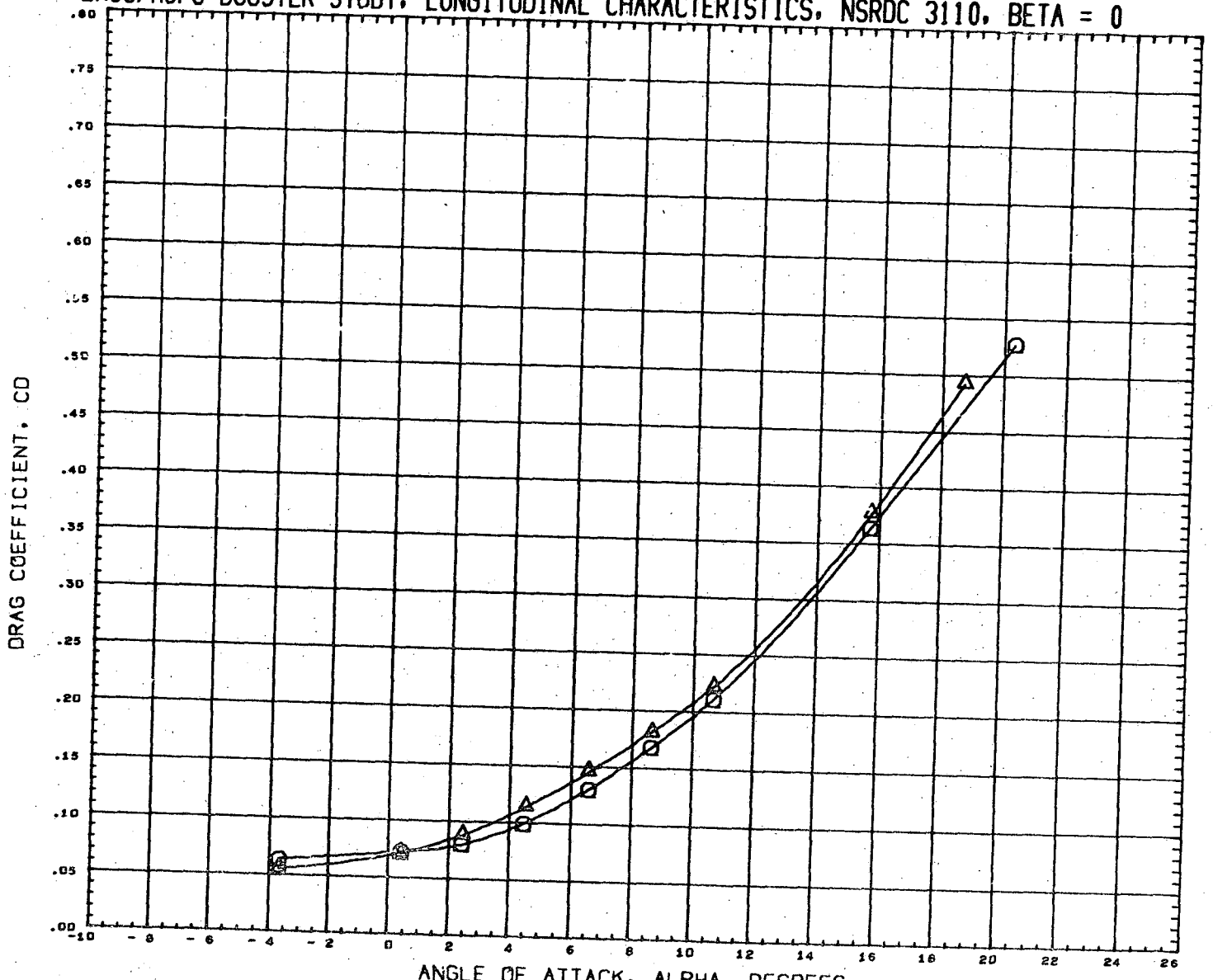
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2085)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

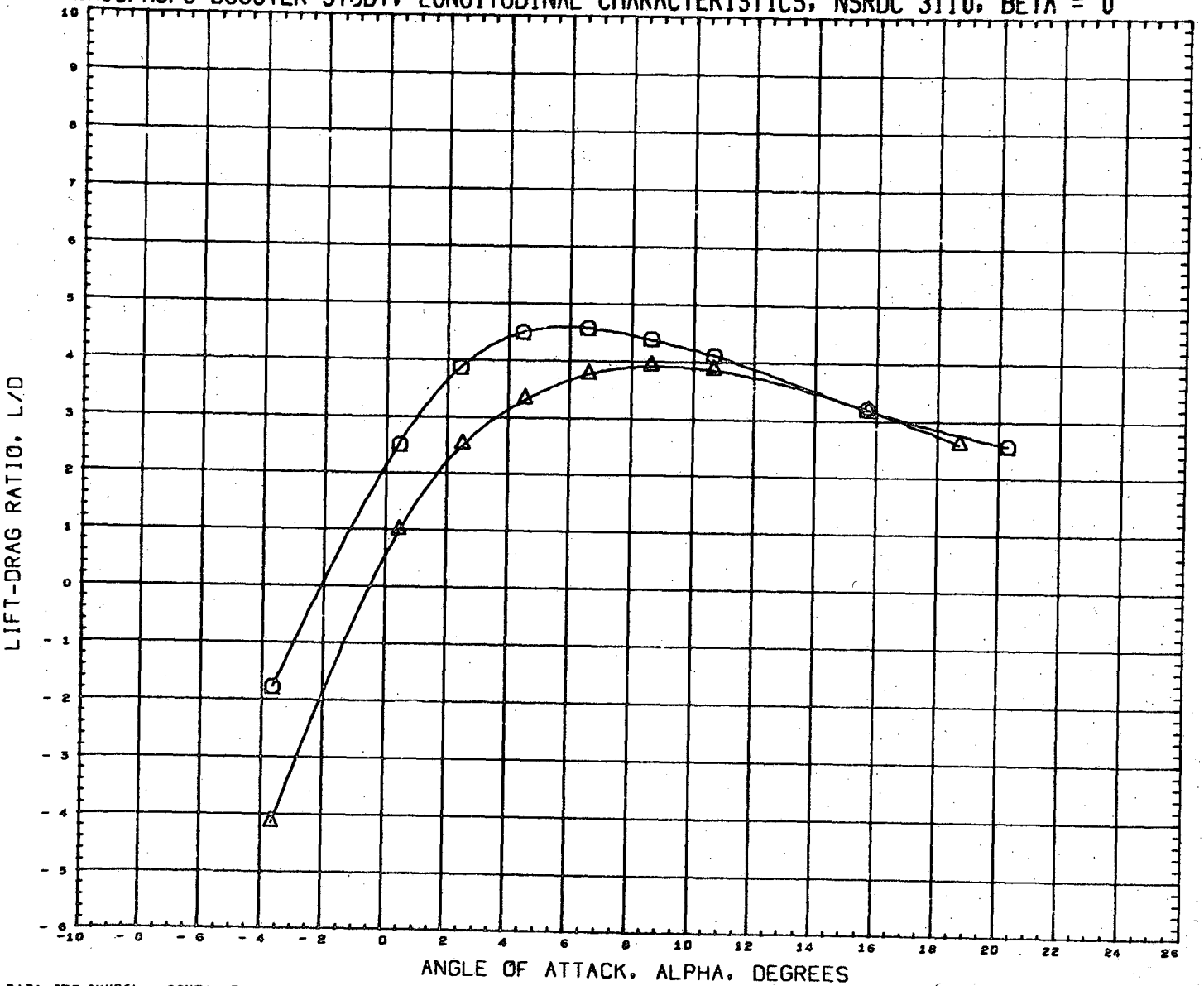


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2085) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2069)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2065)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

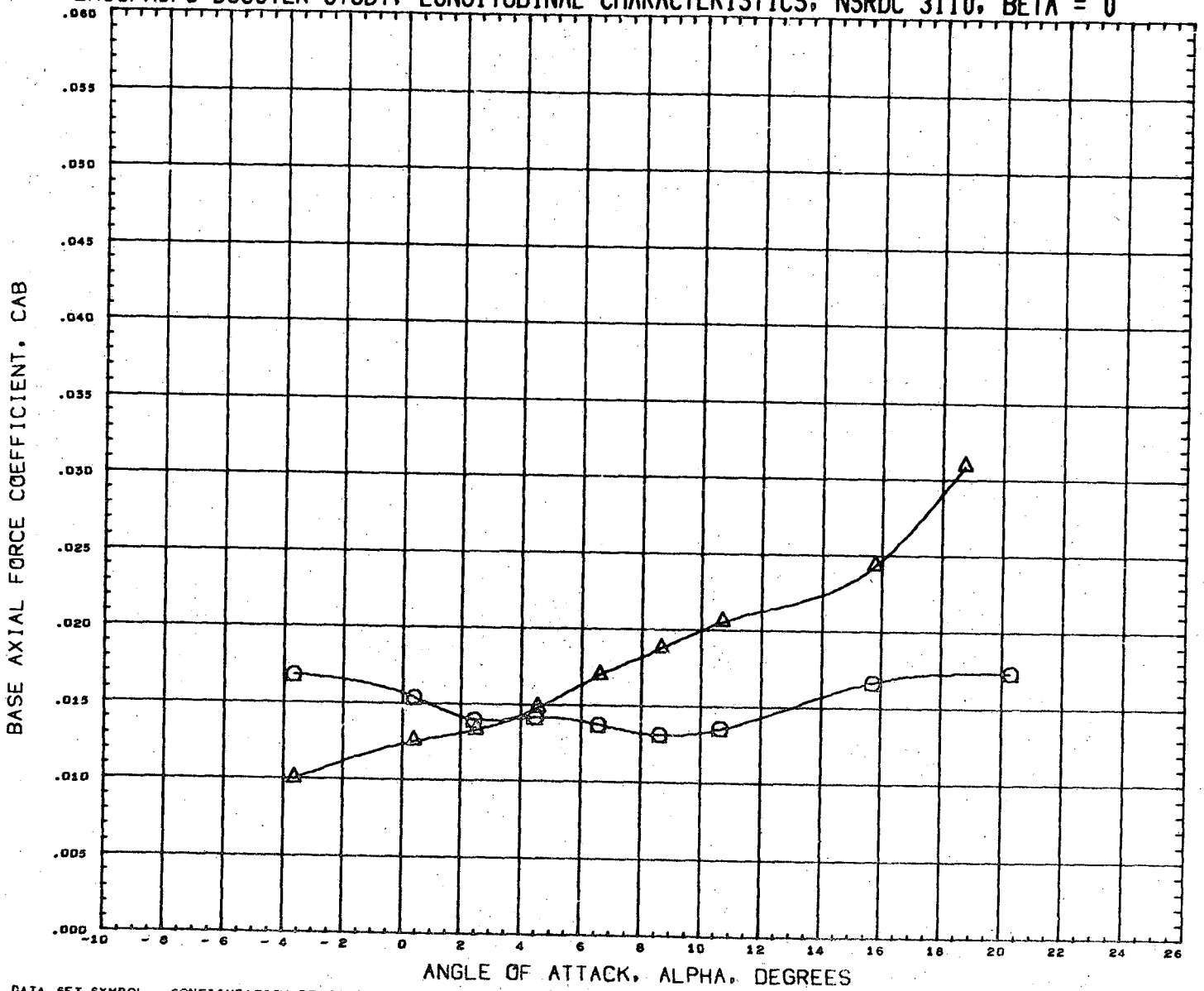
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

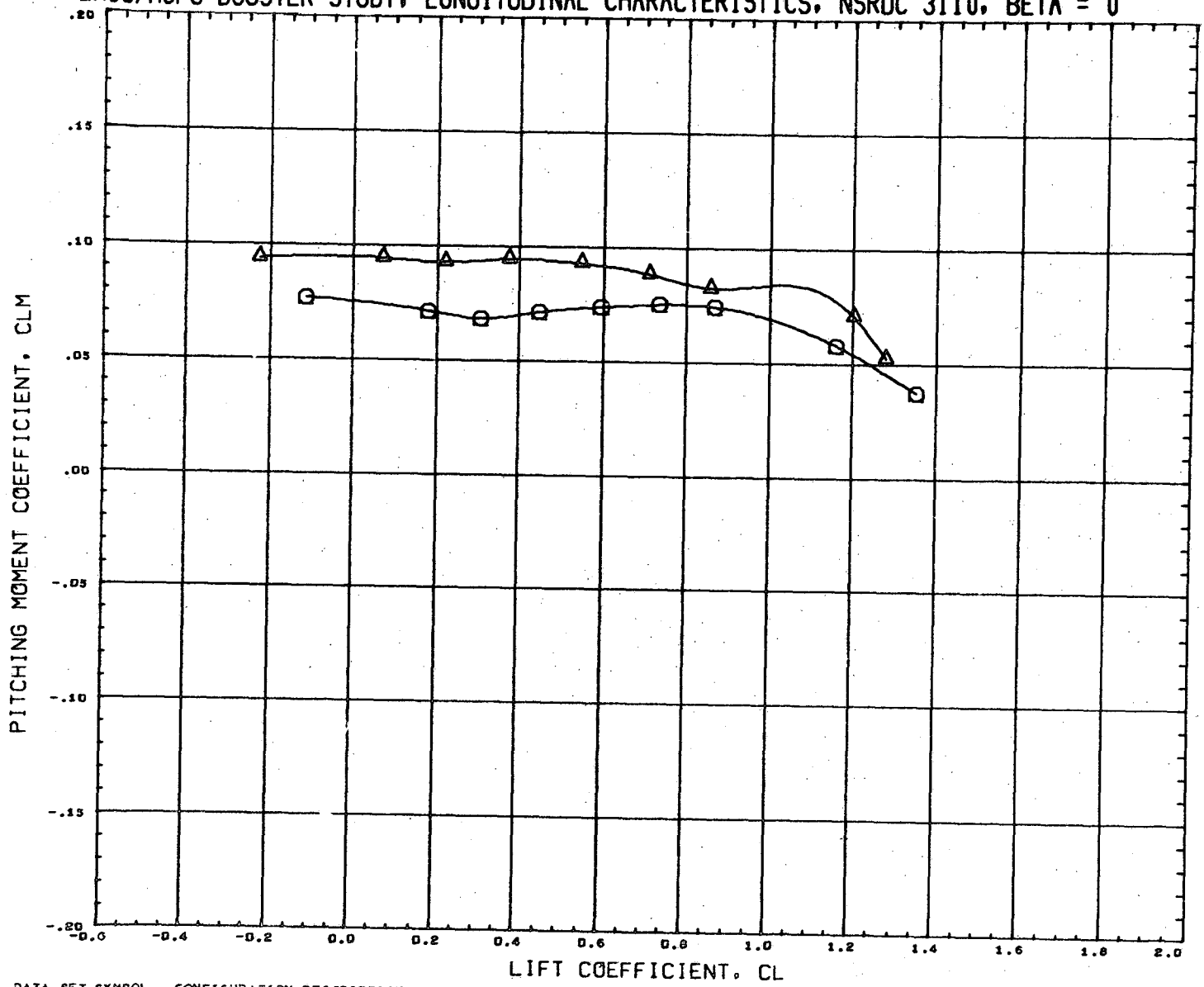


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2085)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

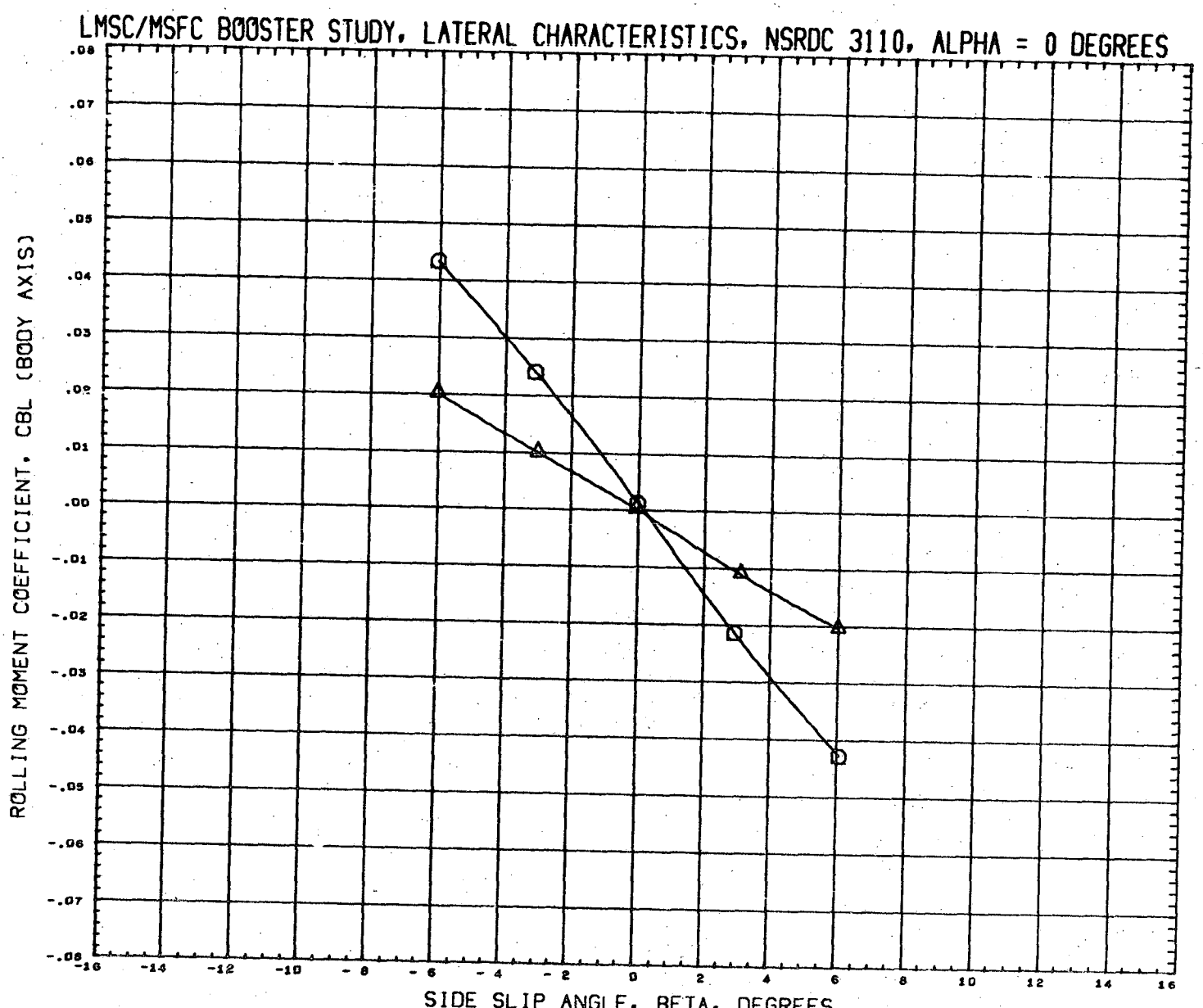


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2069)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2085)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

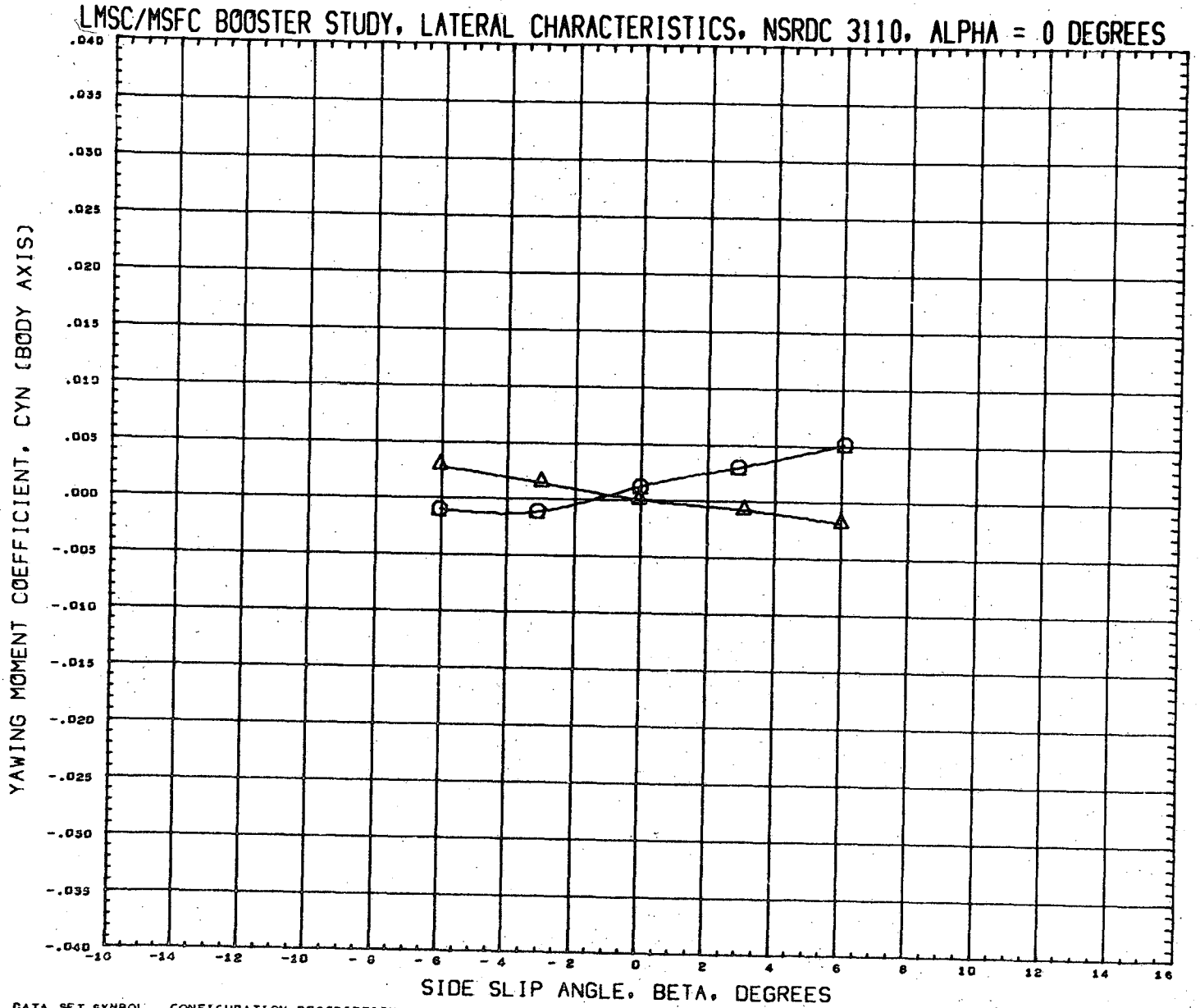
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2070)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000
(RN2066)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



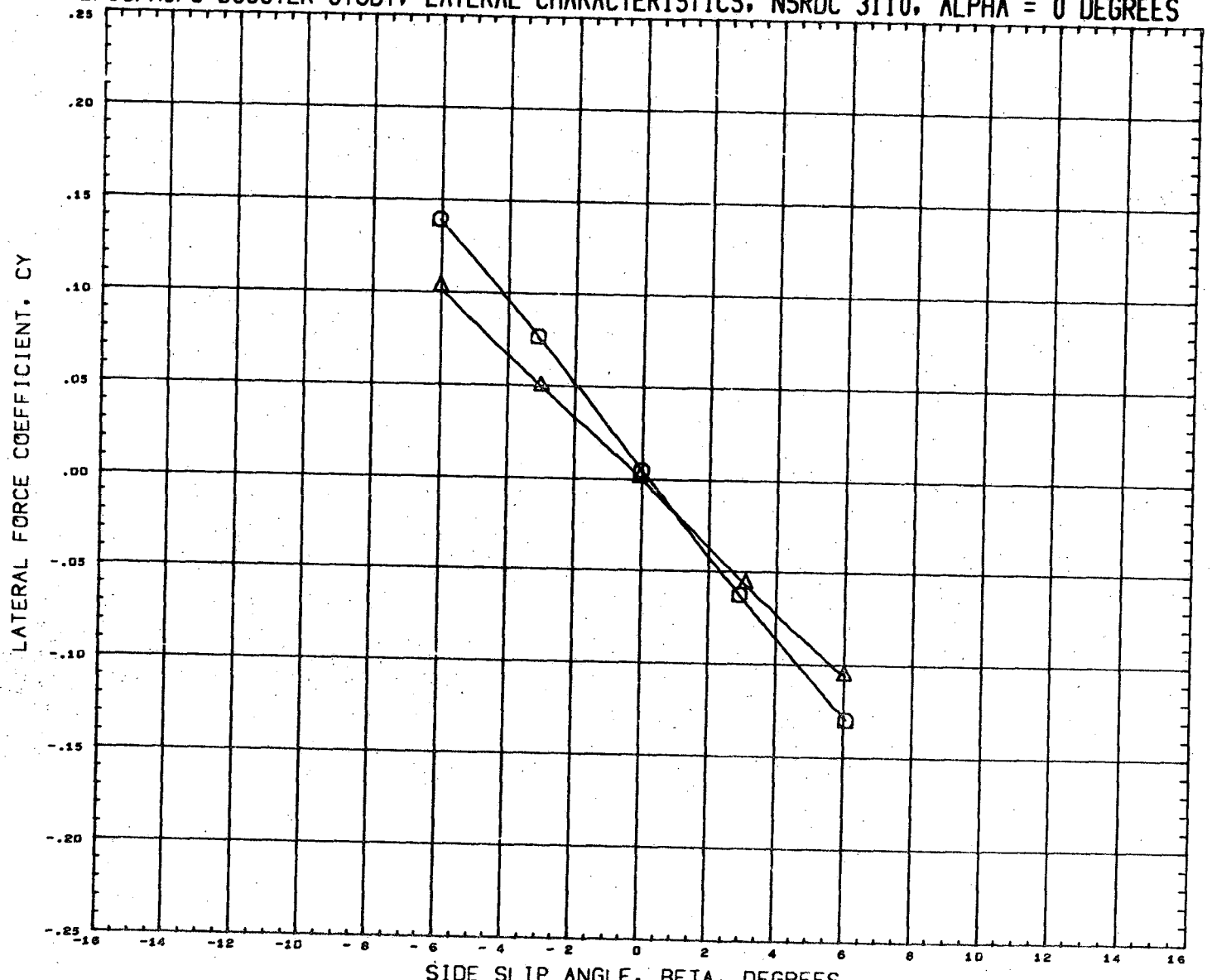
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2070)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2086)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



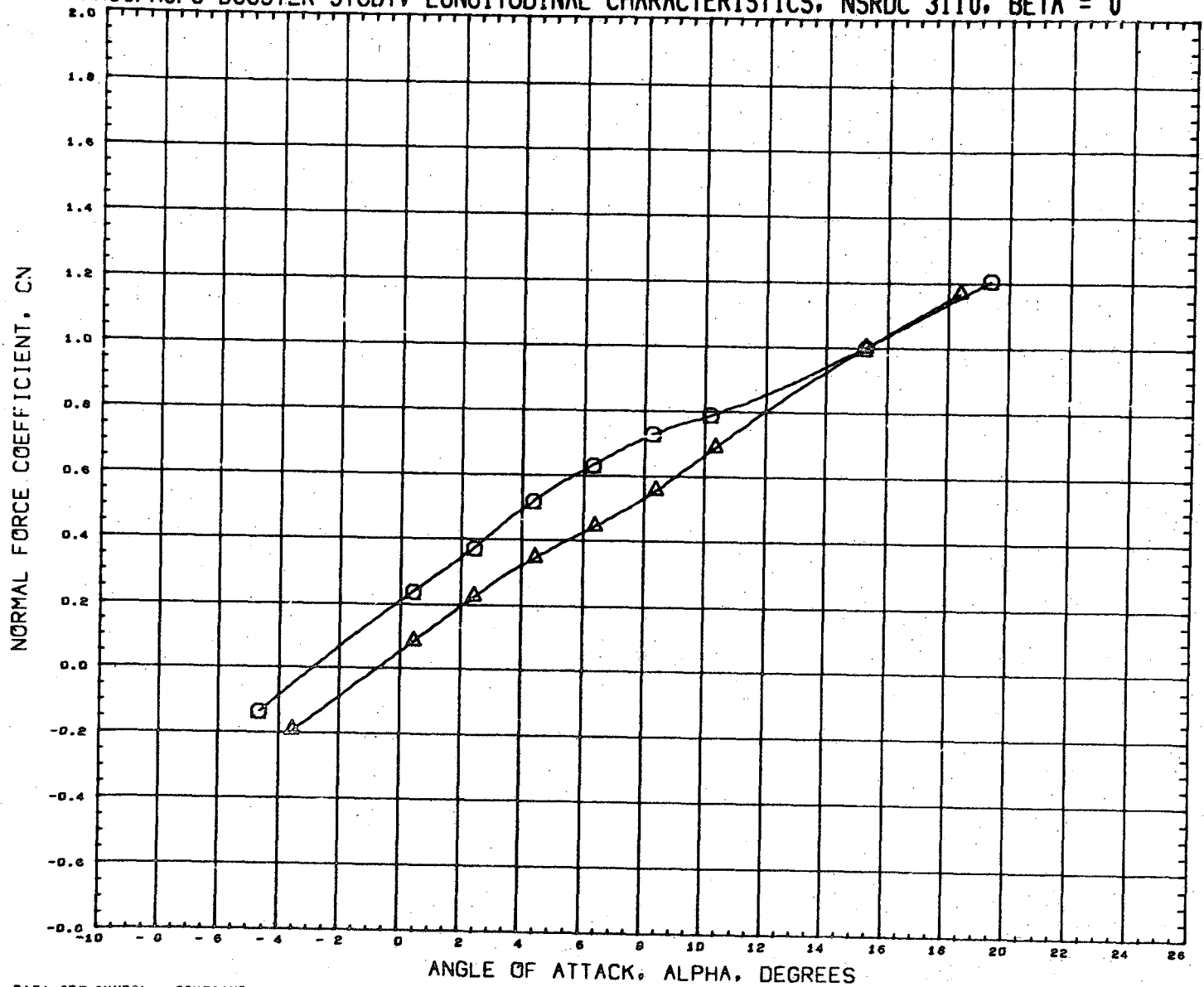
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2070)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2086)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



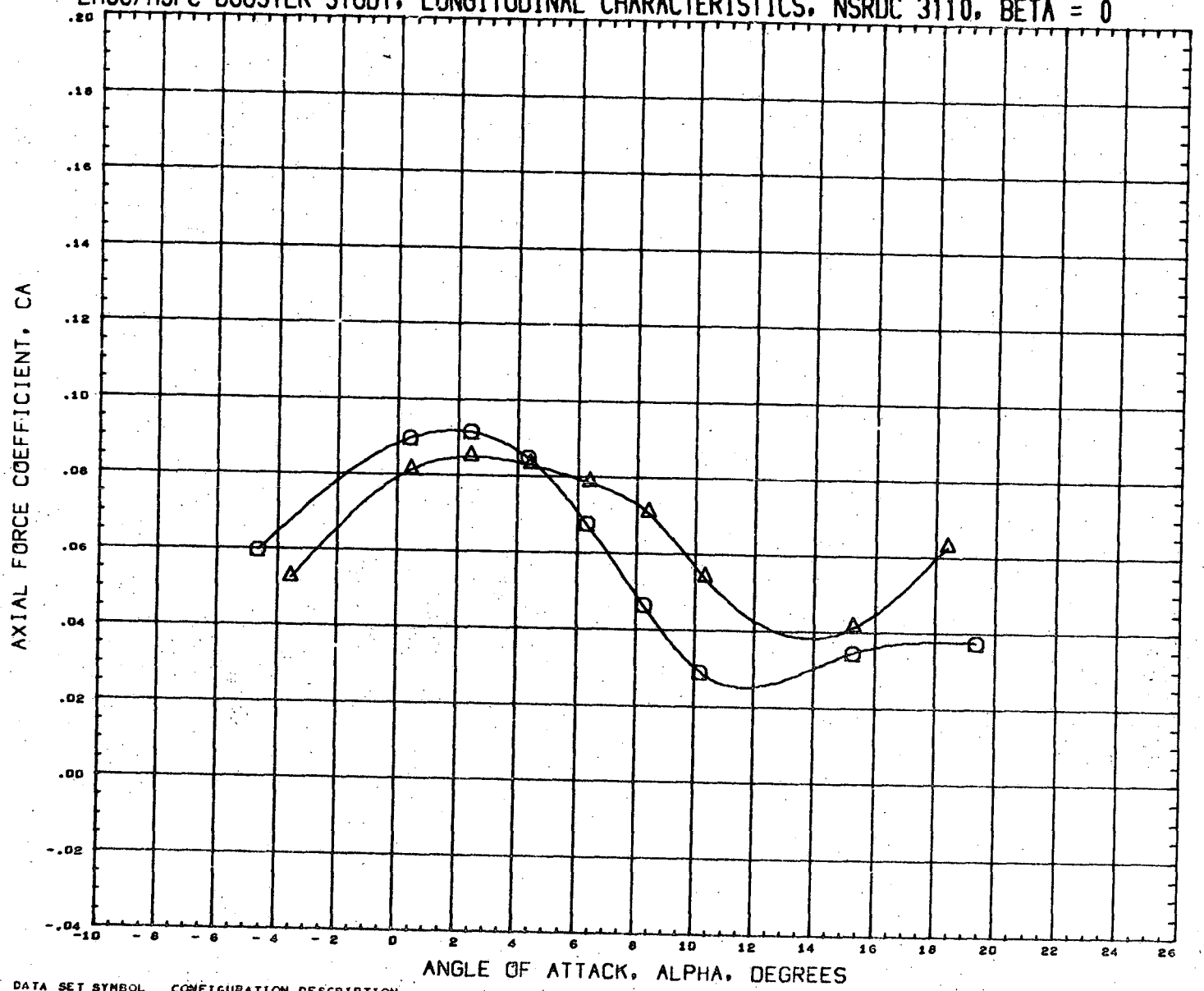
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2077) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2093) △	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



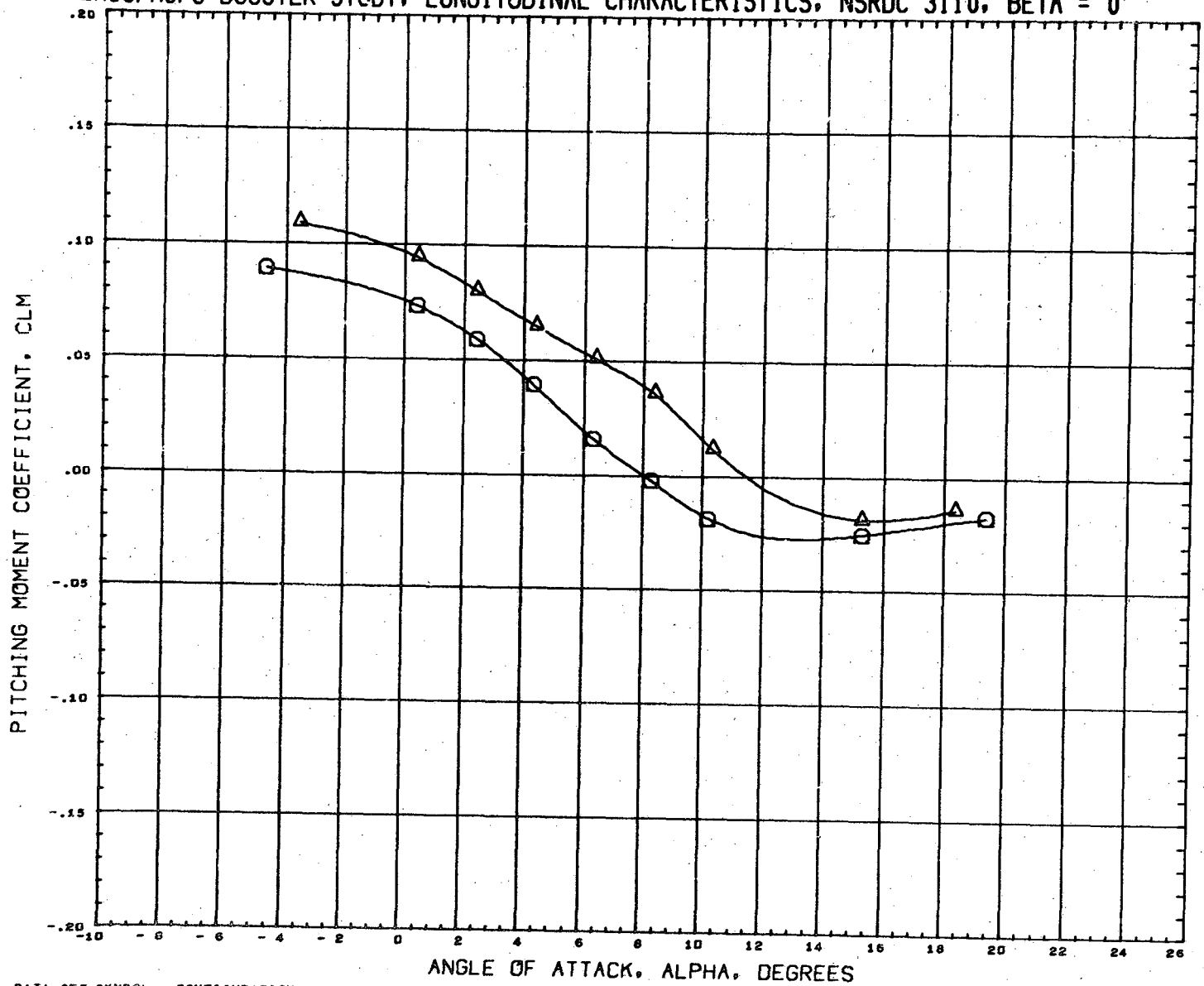
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2077)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2793)	△	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

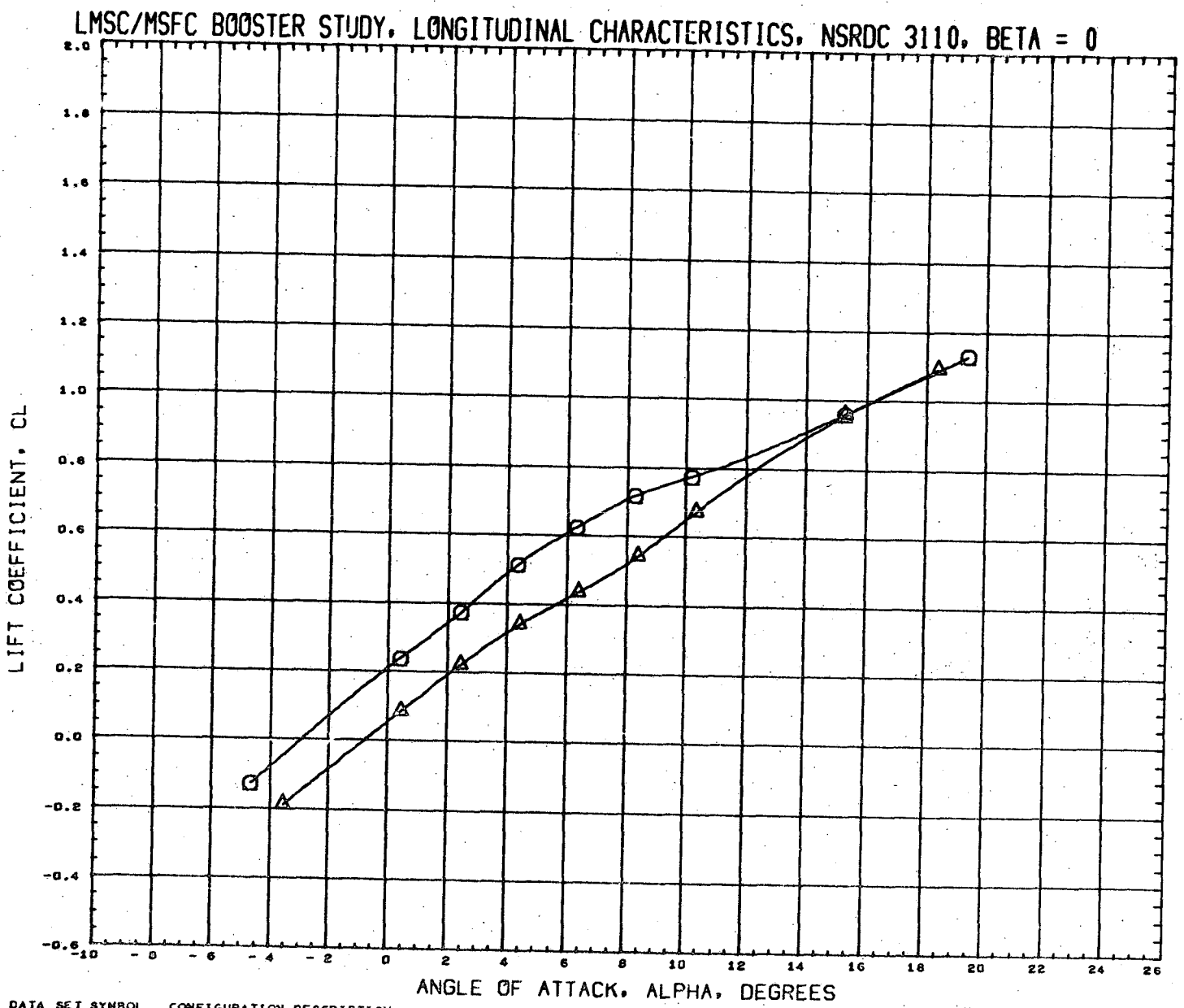


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2077)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2093)	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

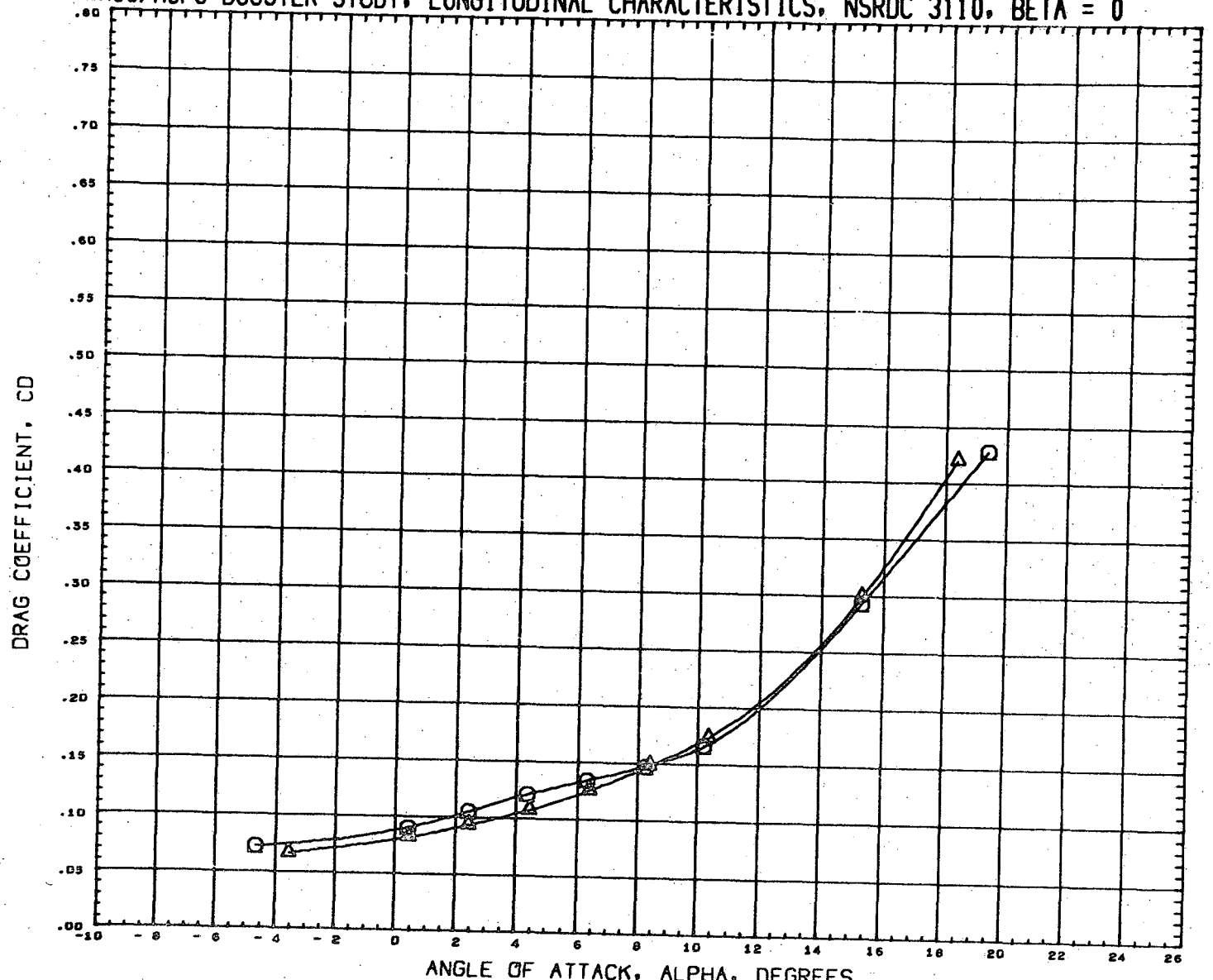


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2077)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2093)	△	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØOSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



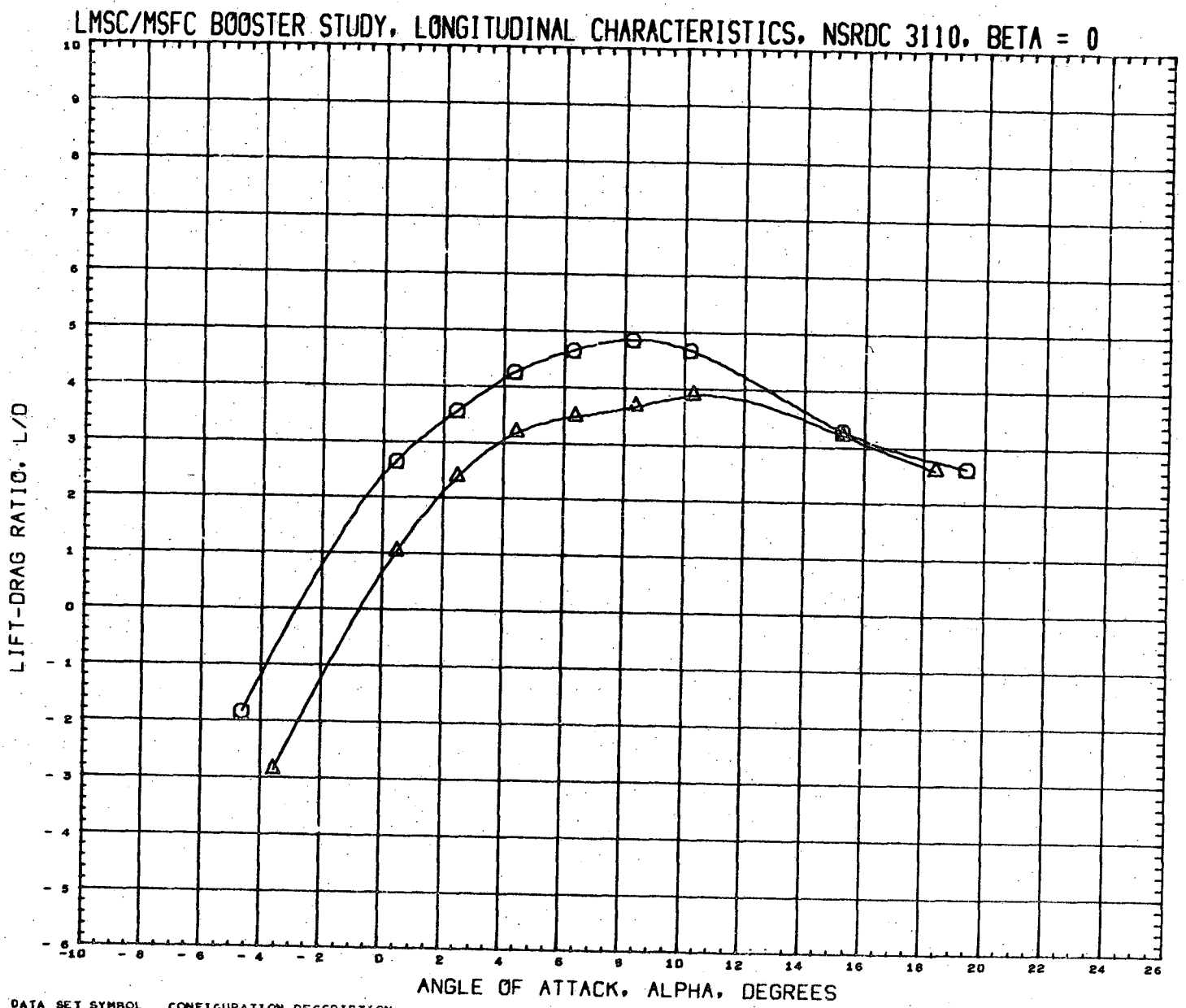
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2077)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2093)	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

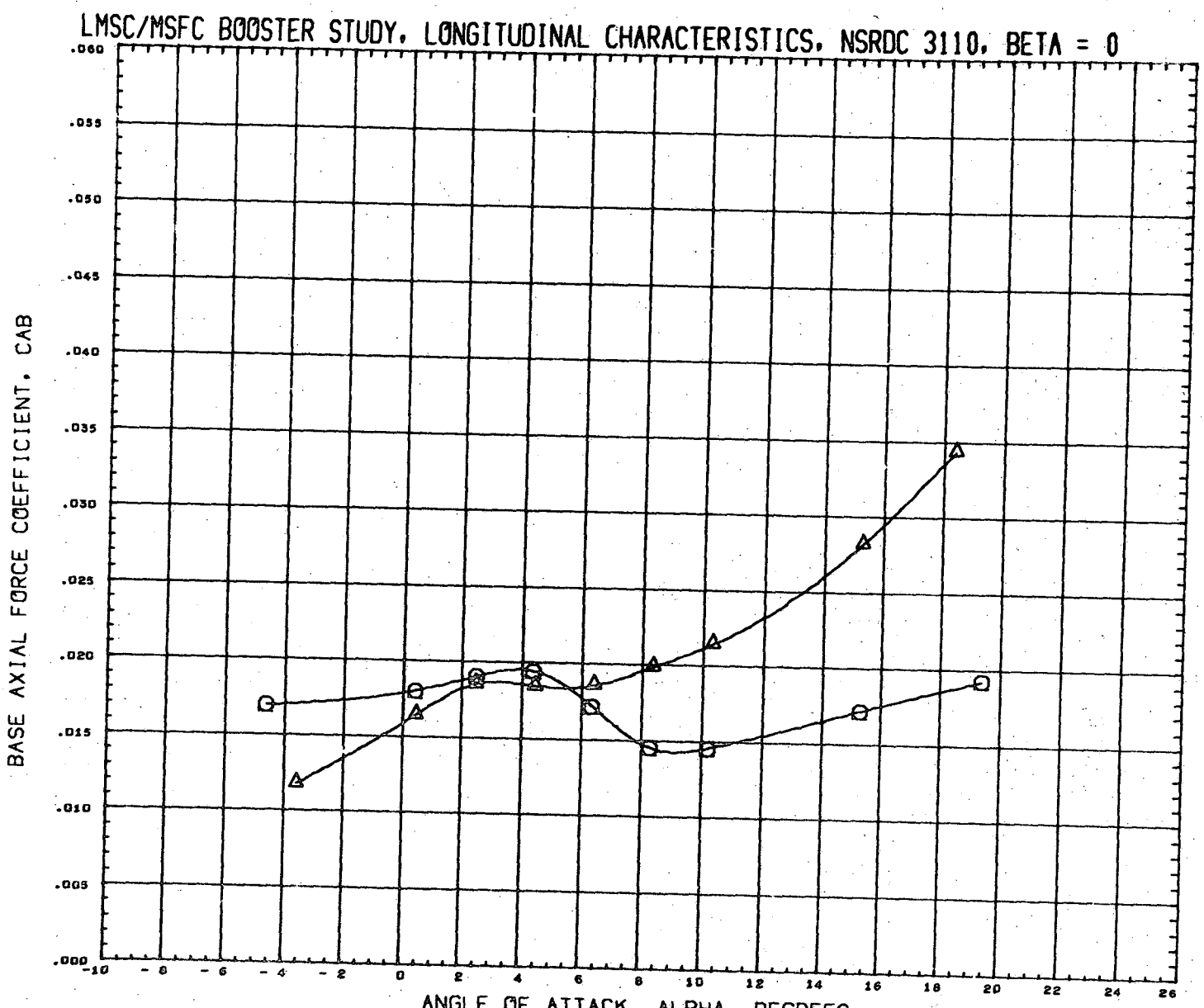


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2077)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2093)	△	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

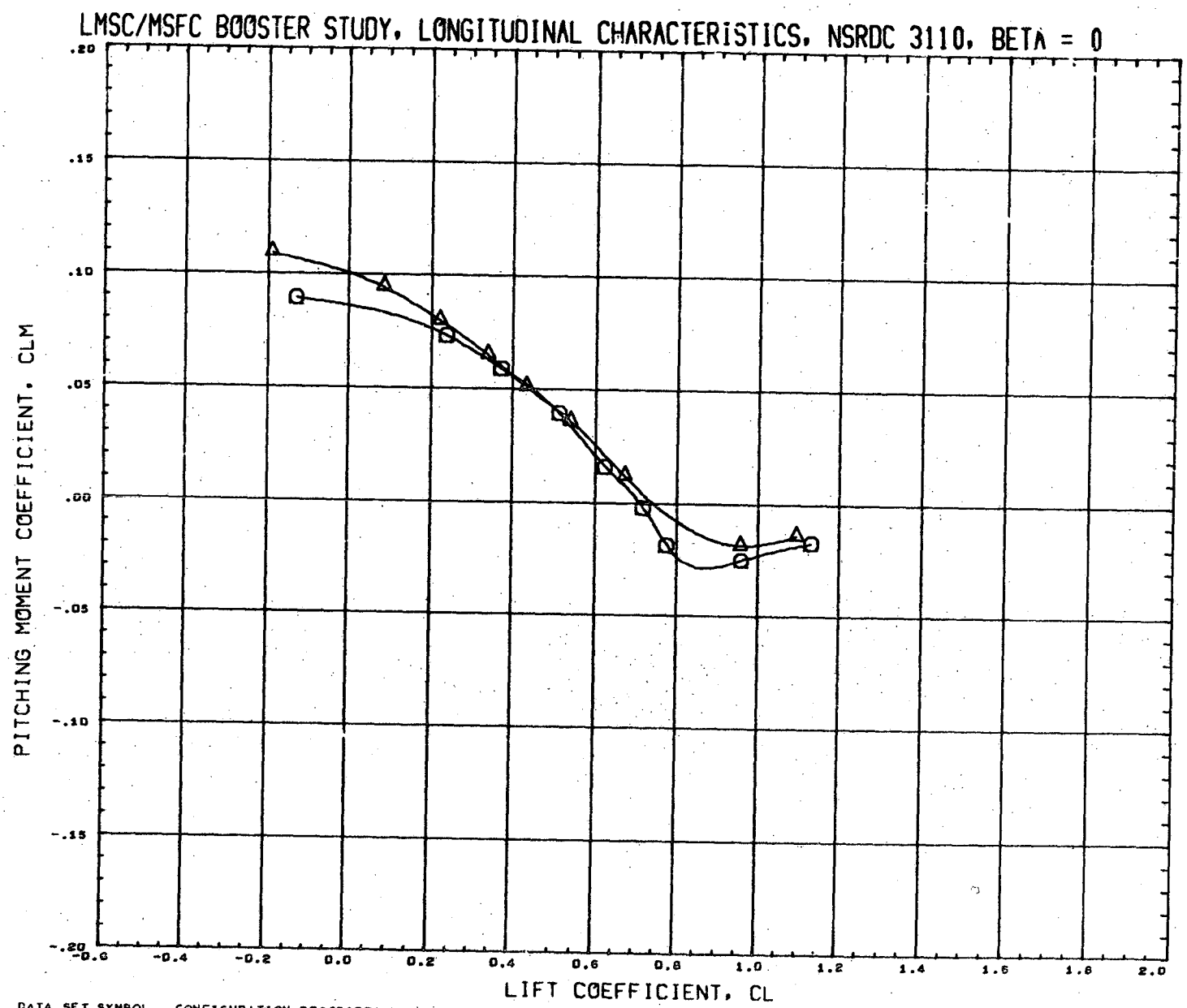


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2077)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2093)	△	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

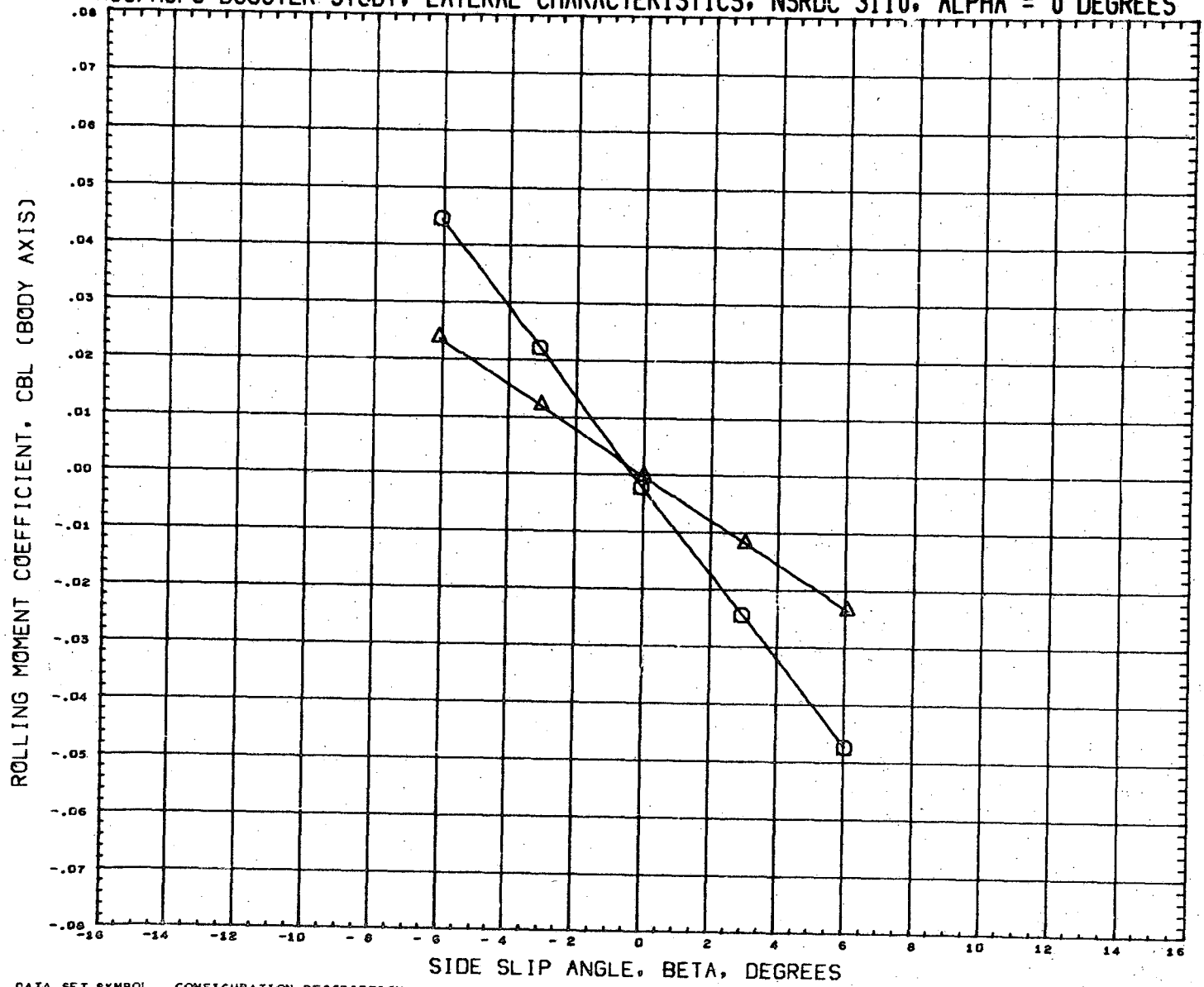


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2077)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2093)	△	NSDRC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

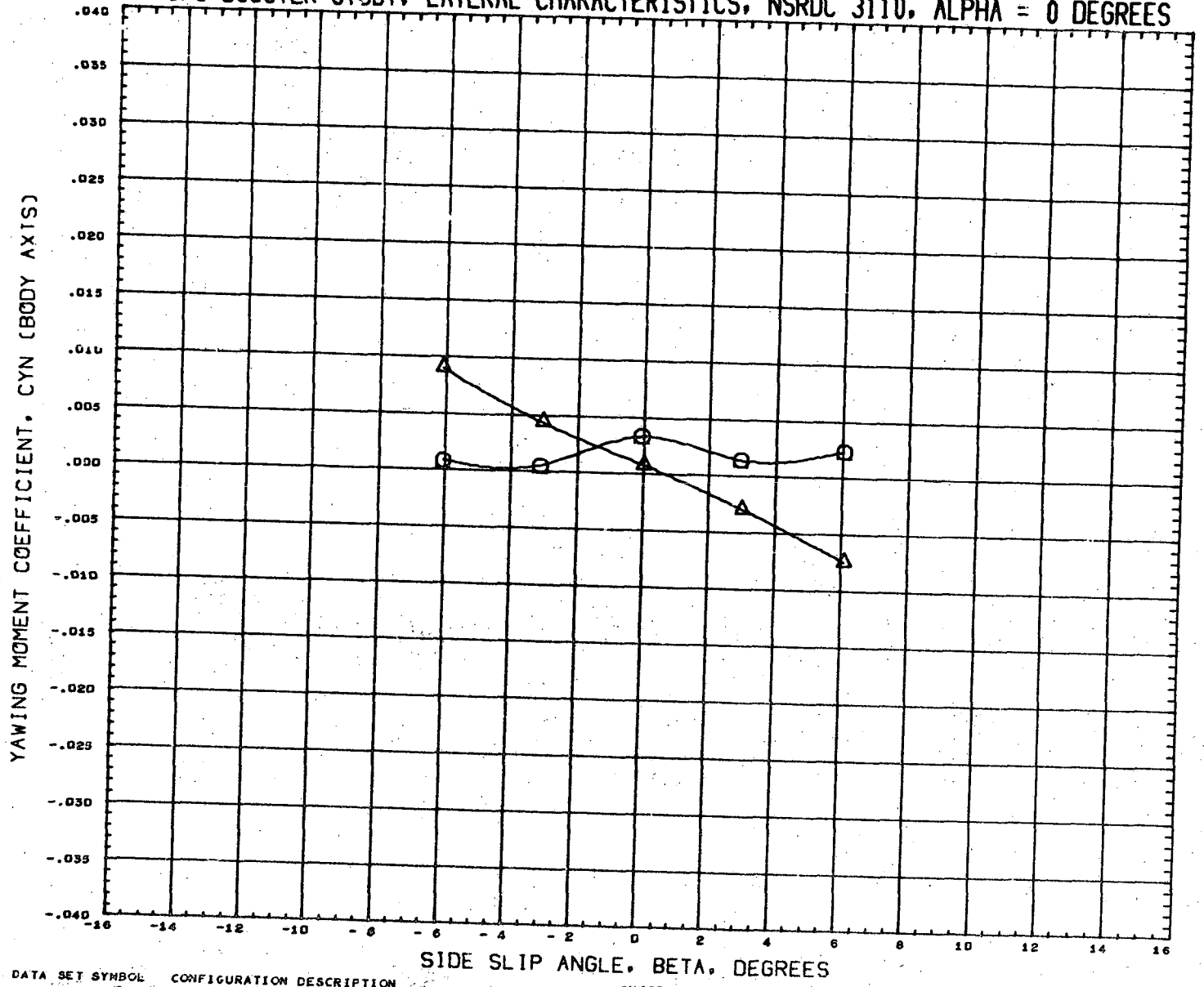


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2078)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2094)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



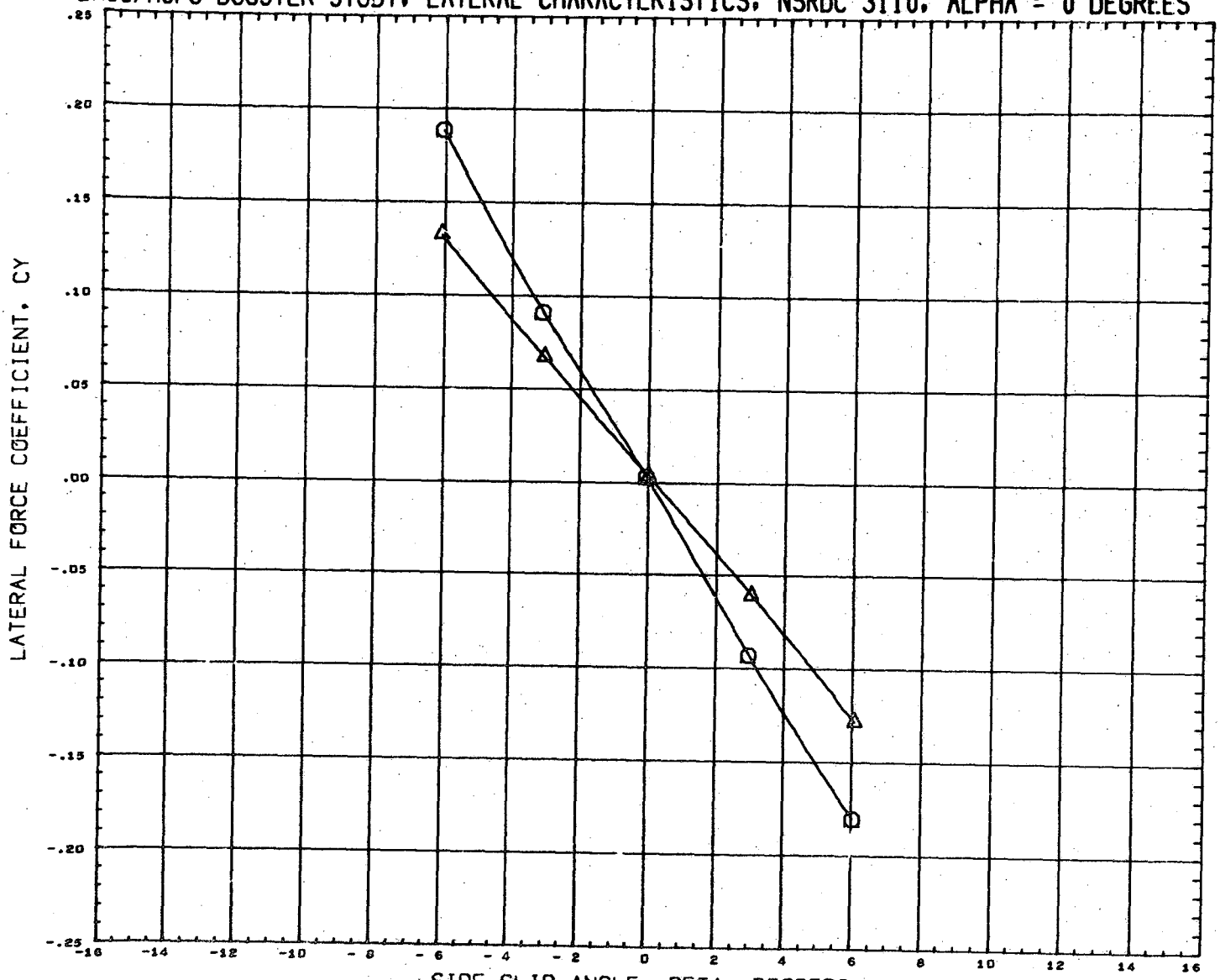
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2078)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2094)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

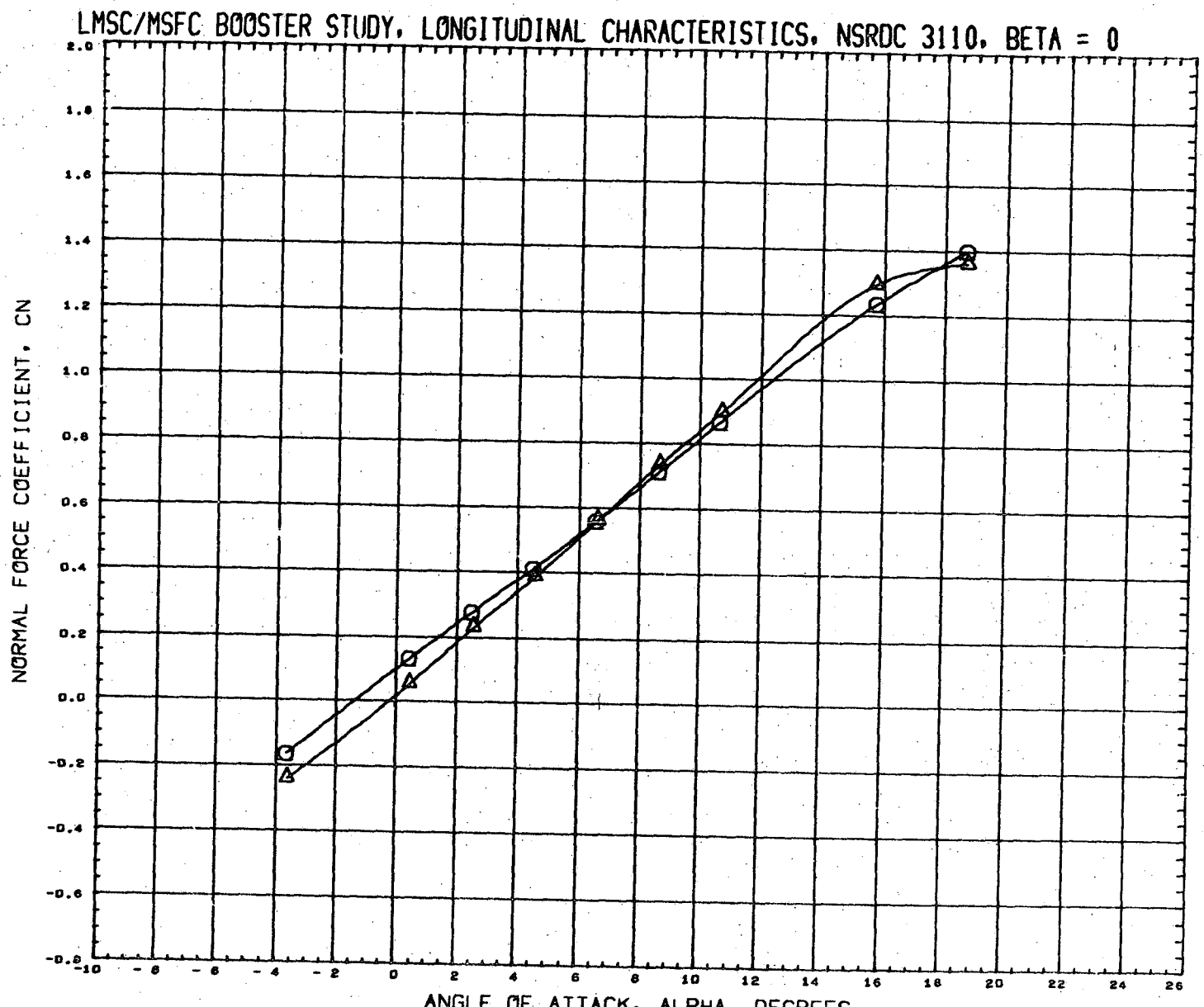
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2078)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000
(RN2094)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

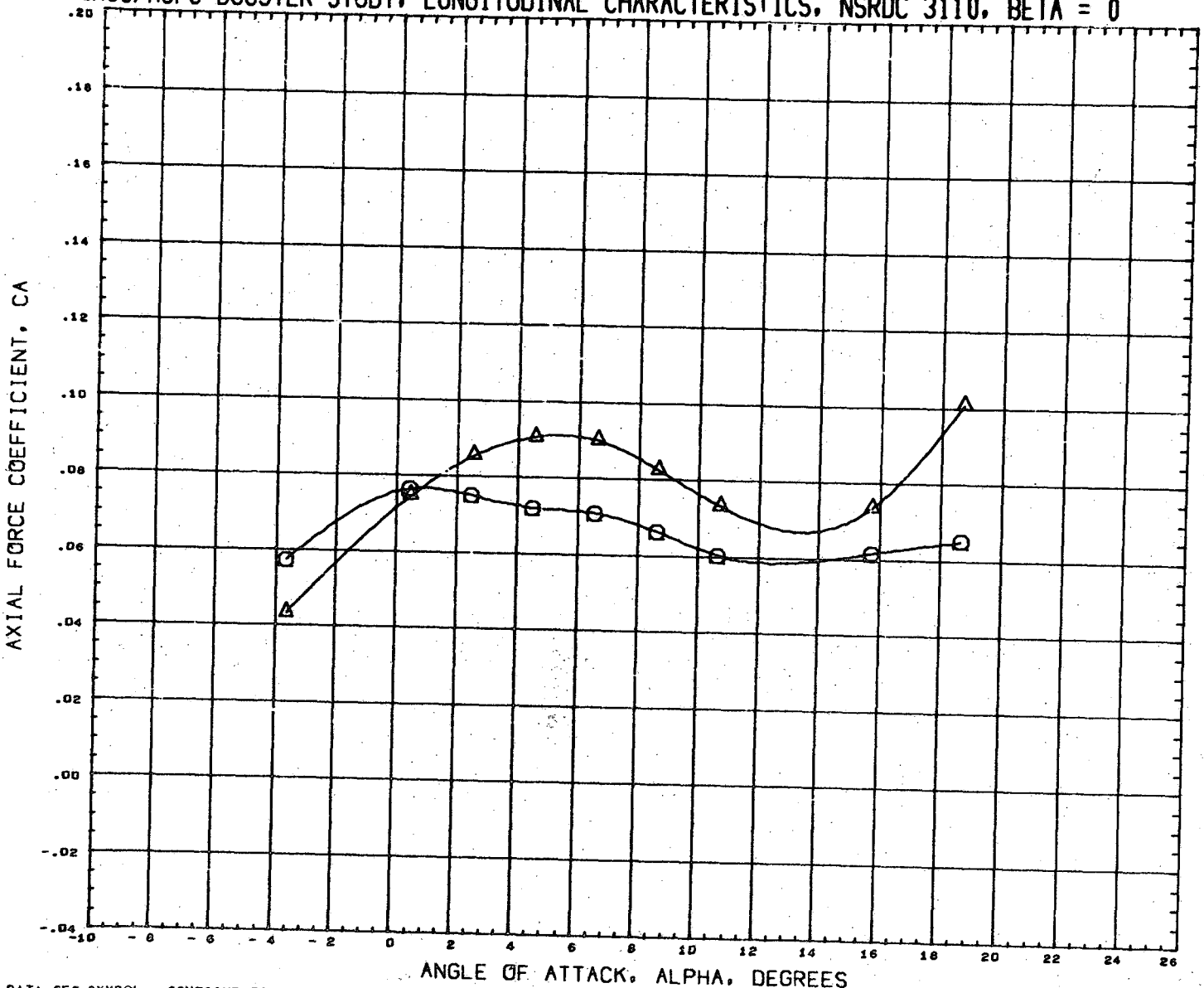


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2133)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000
(RN2149)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

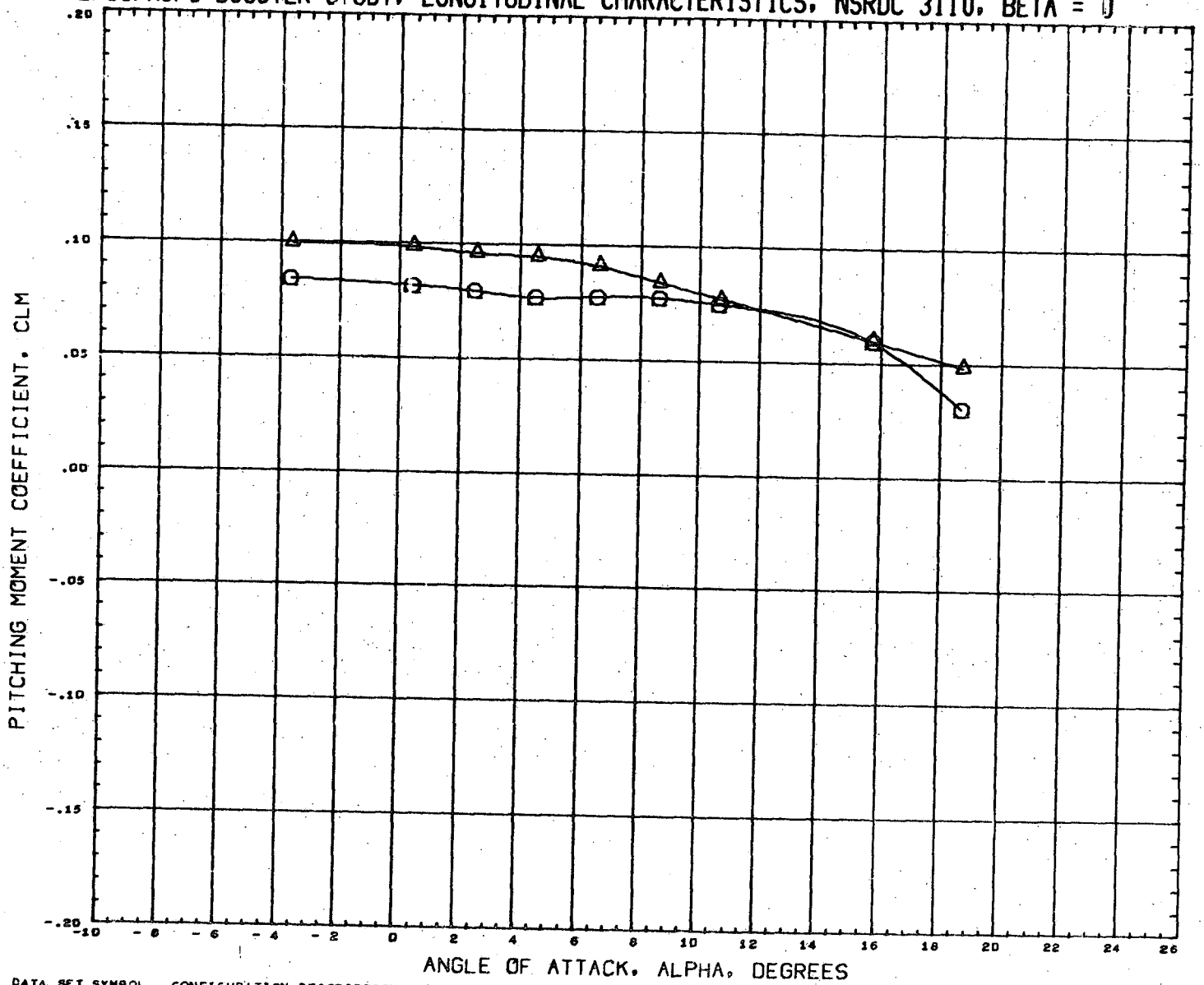


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2133)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000
(RN2149)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

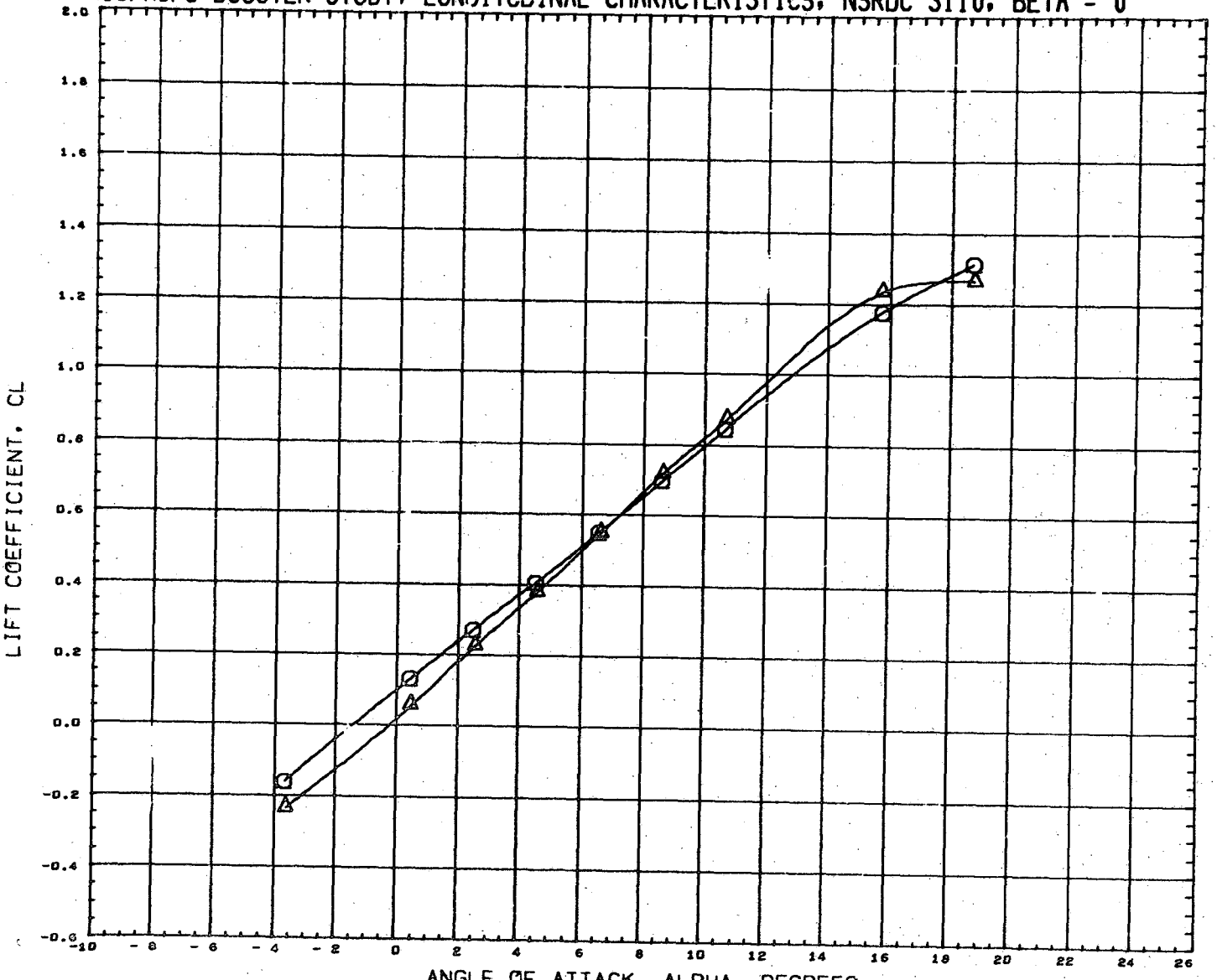


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2133)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000
(RN2149)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5100	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



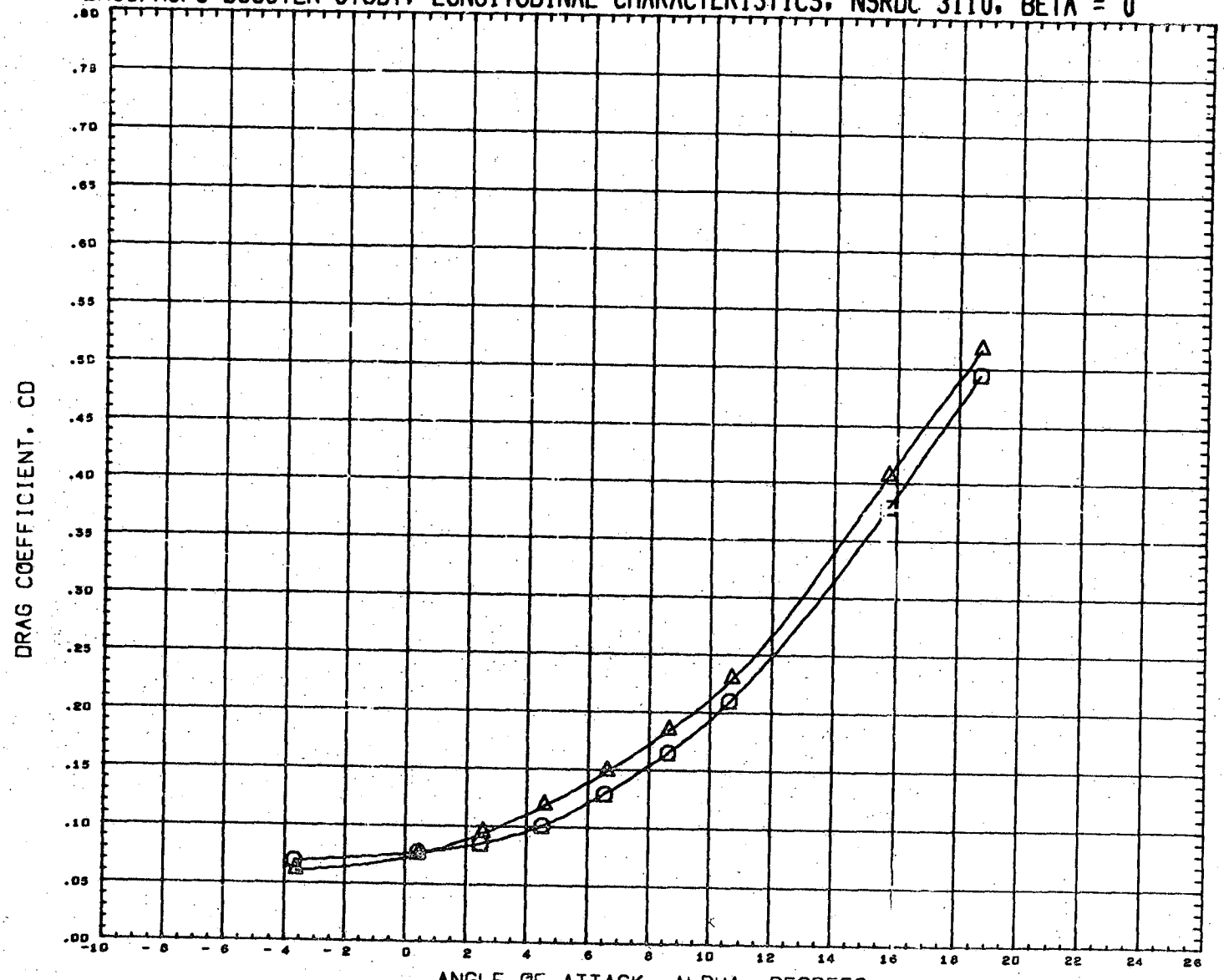
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2133)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000
(RN2149)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

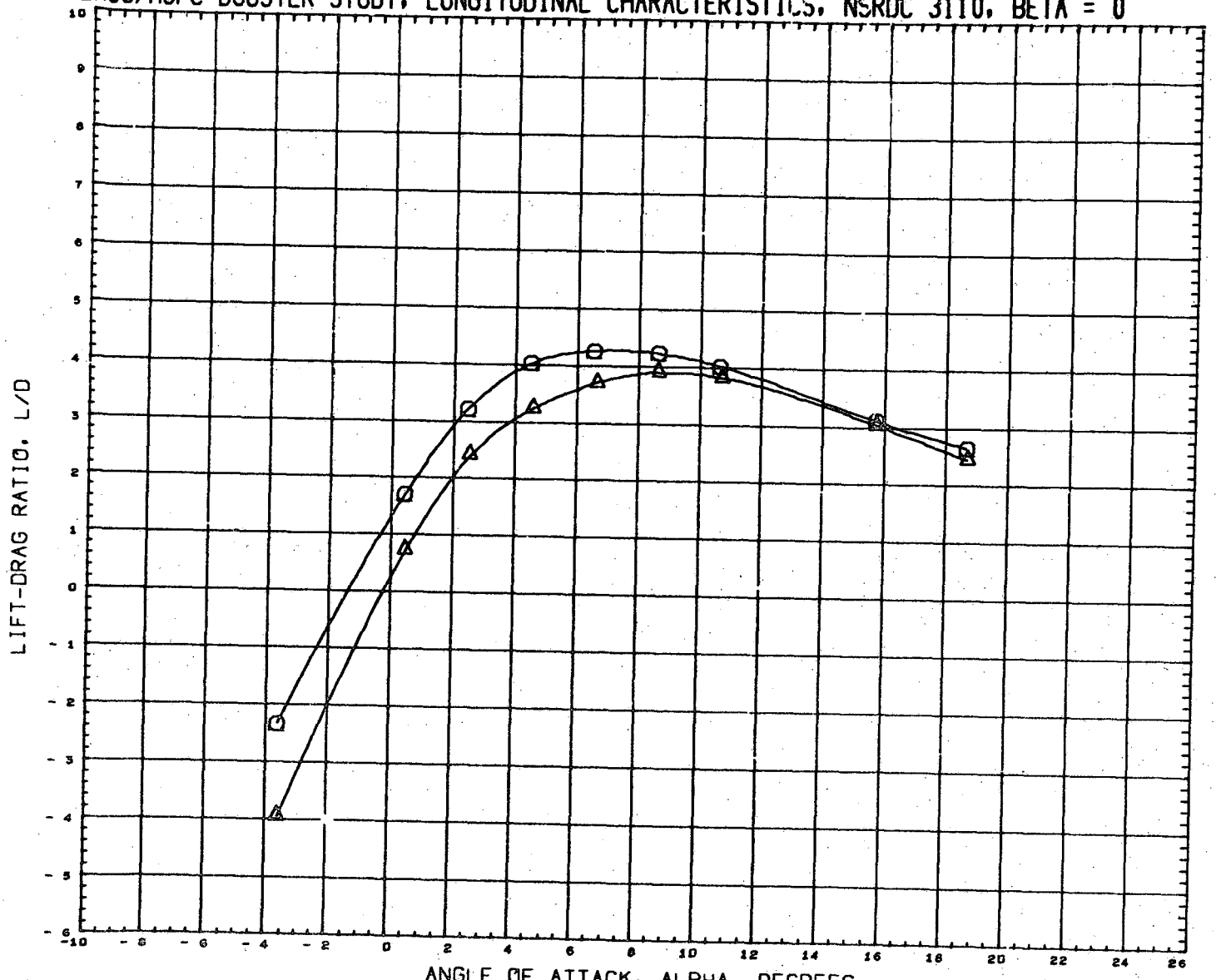


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2133)	○	NSRDC-3110,NSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000
(RN2149)	△	NSRDC-3110,NSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



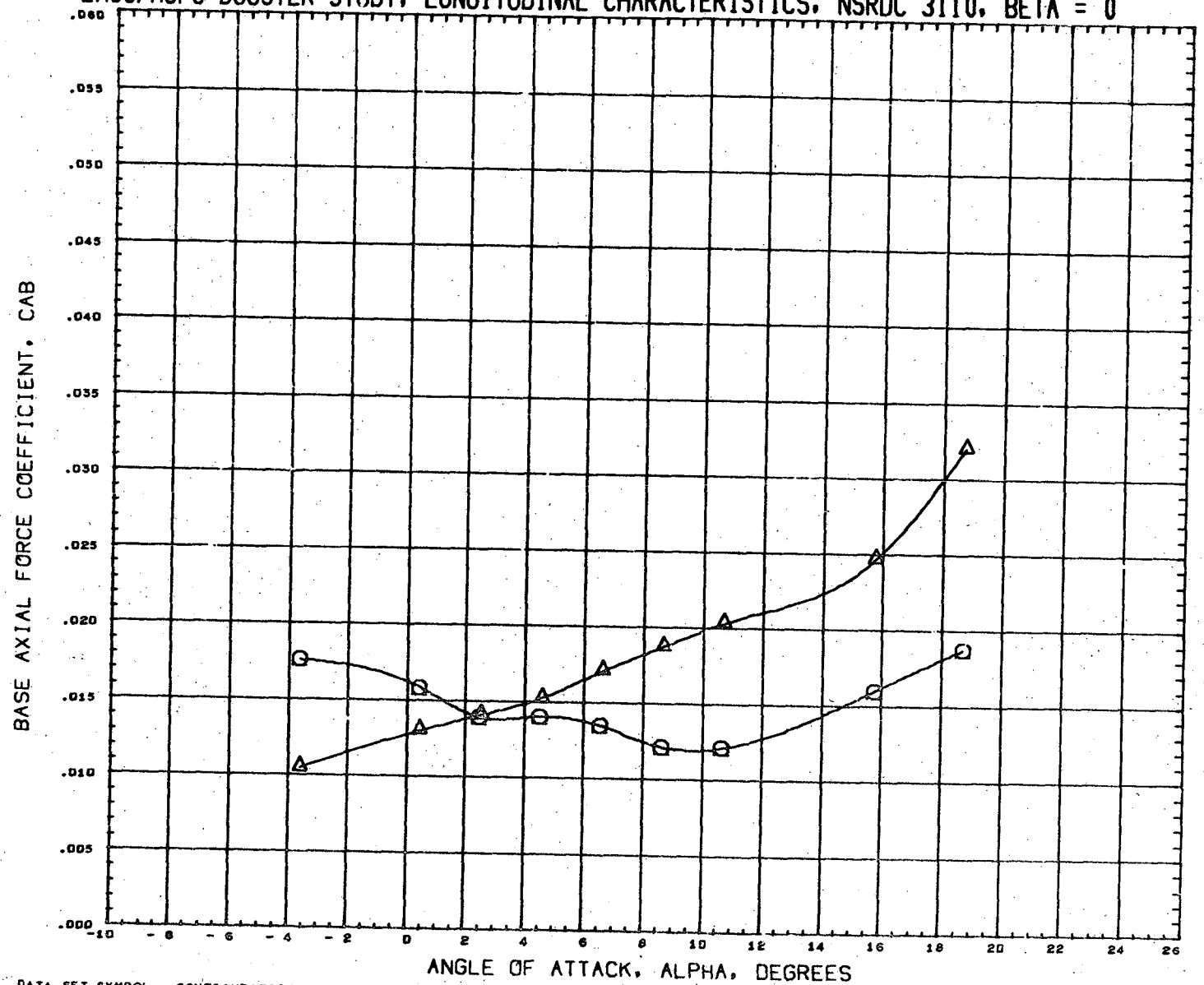
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2133)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1
(RN2149)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

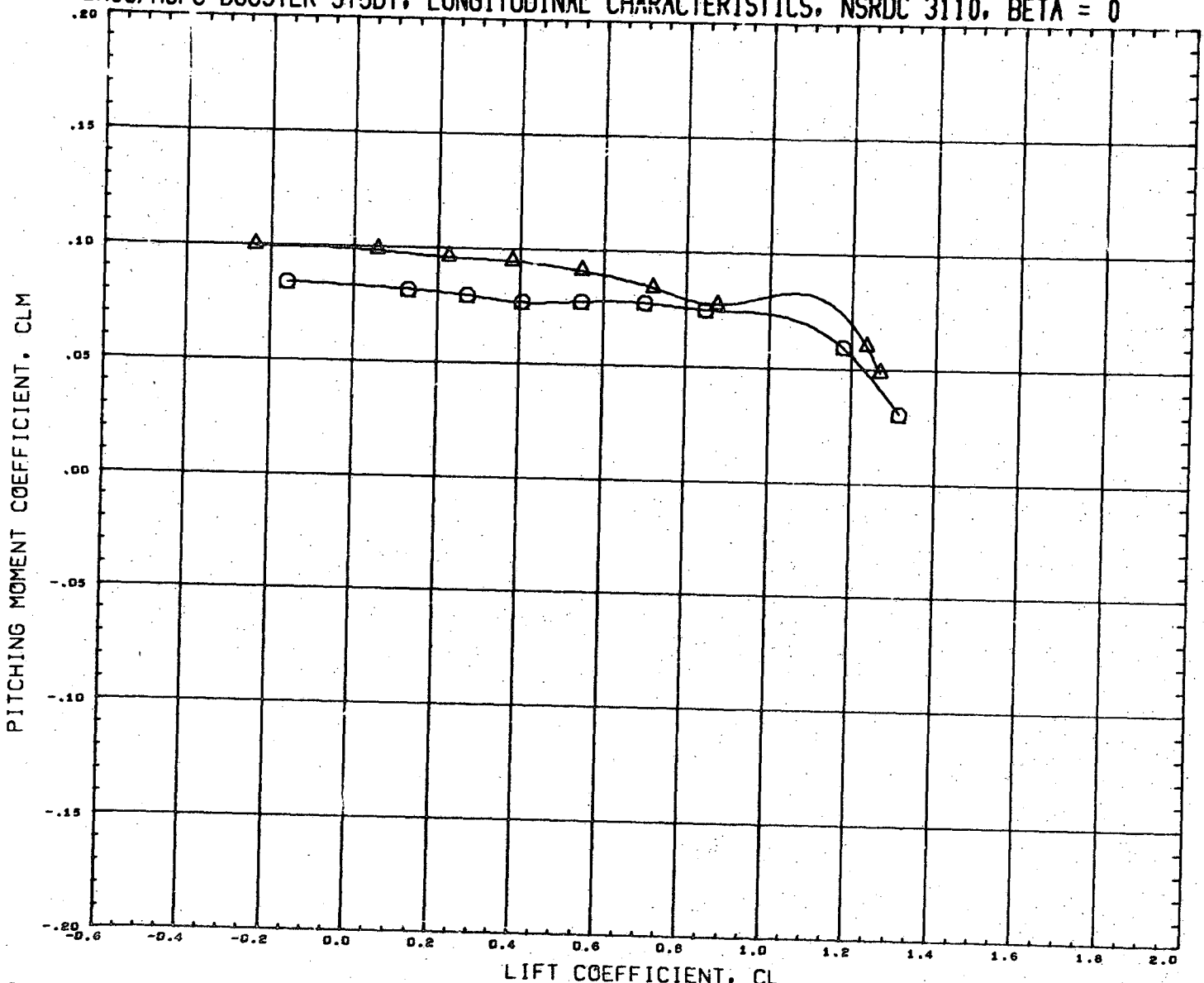
LMSC/MSFC BØOSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2133)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000
(RN2149)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

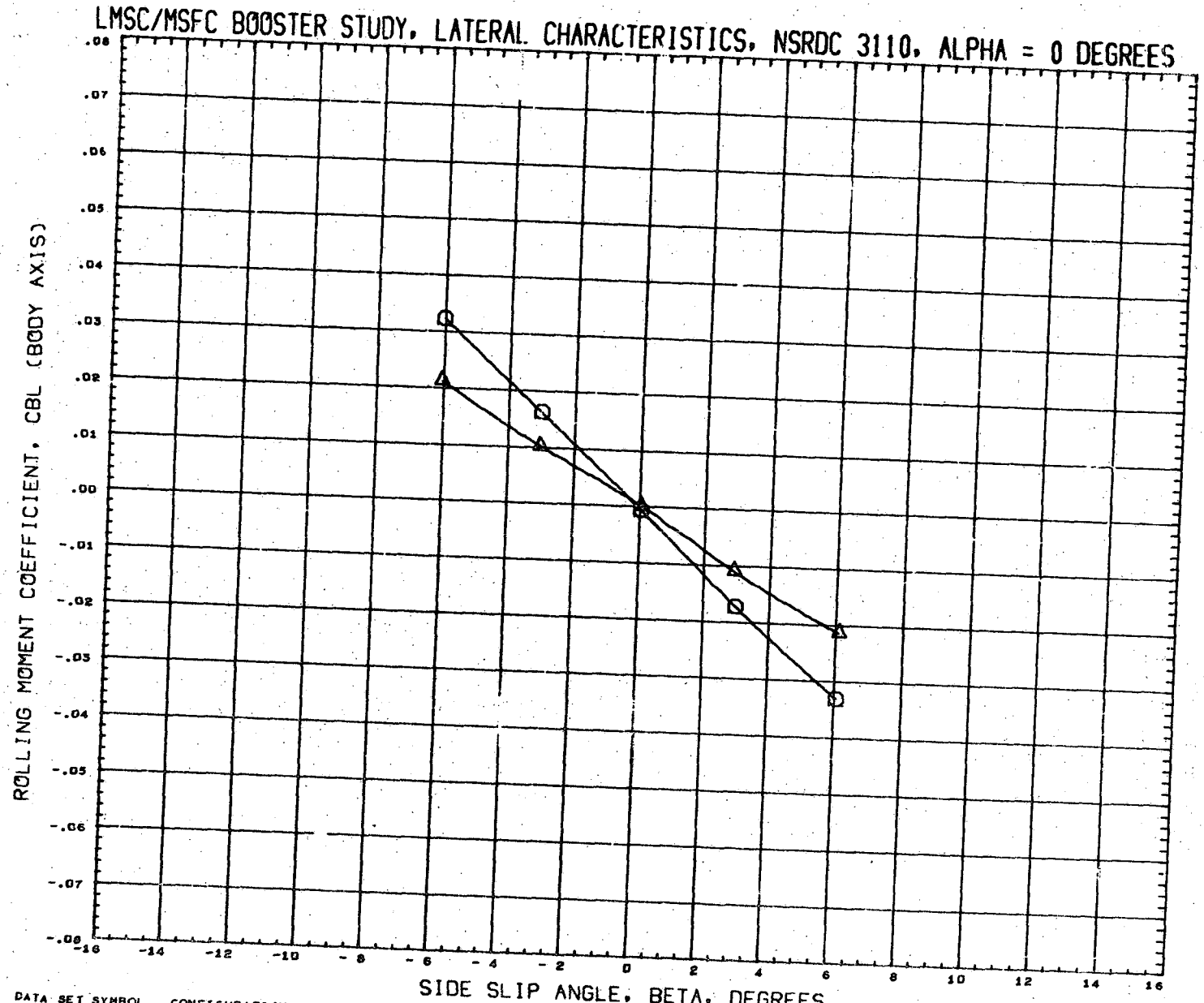
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2133)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000
(RN2149)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1.00	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

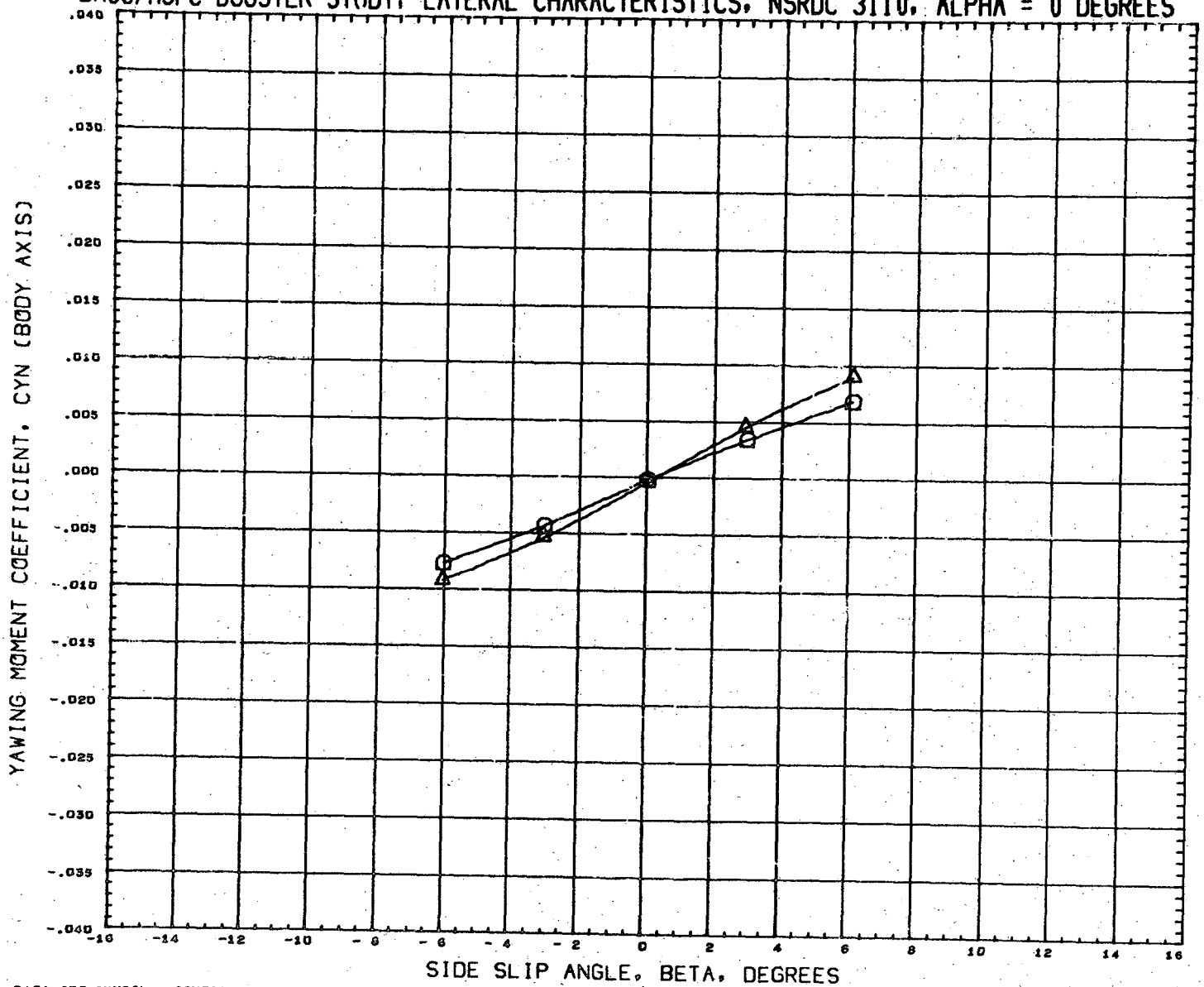


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2134)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000
(RN2150)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

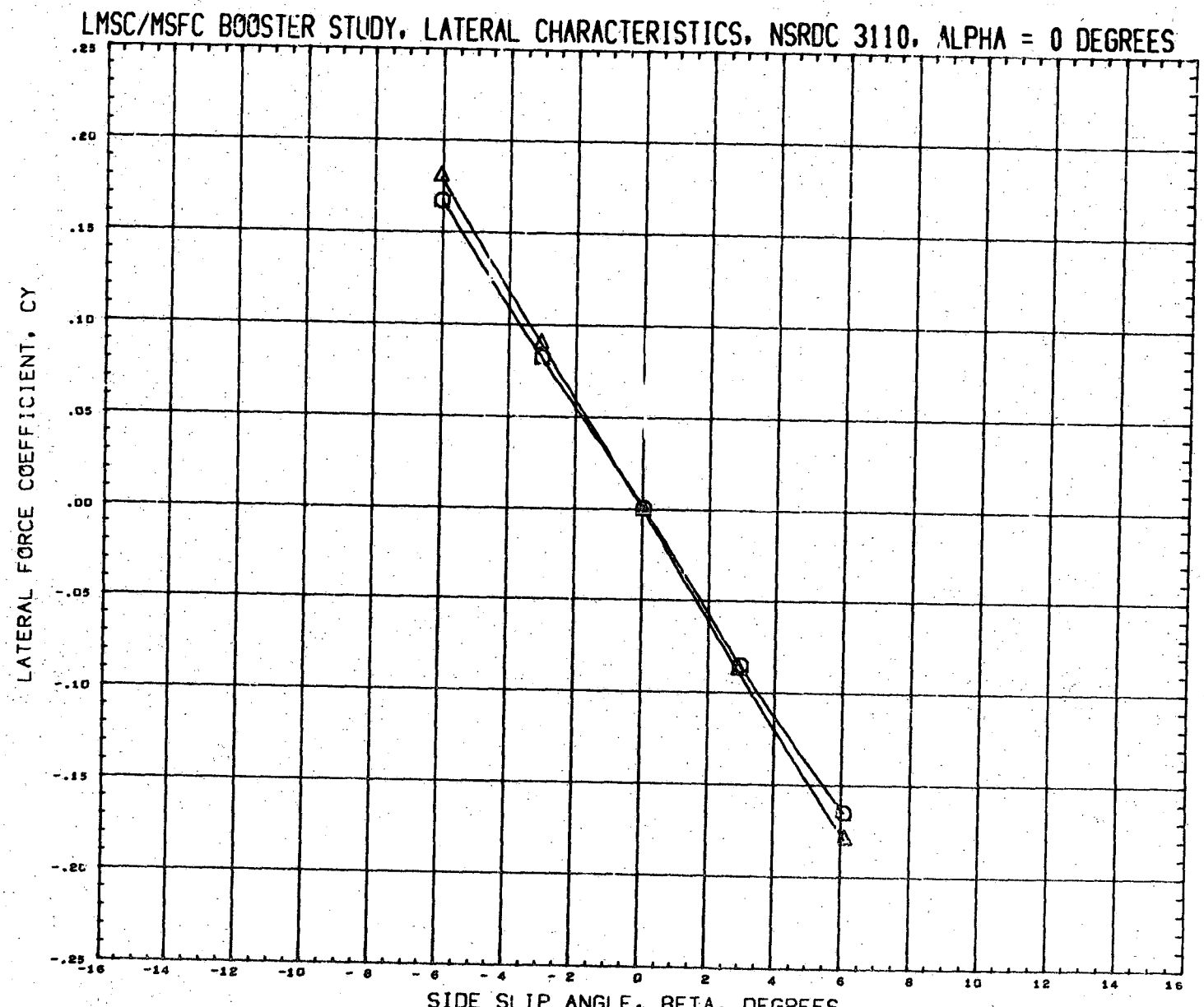
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2154)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000
(RN2150)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.3'9

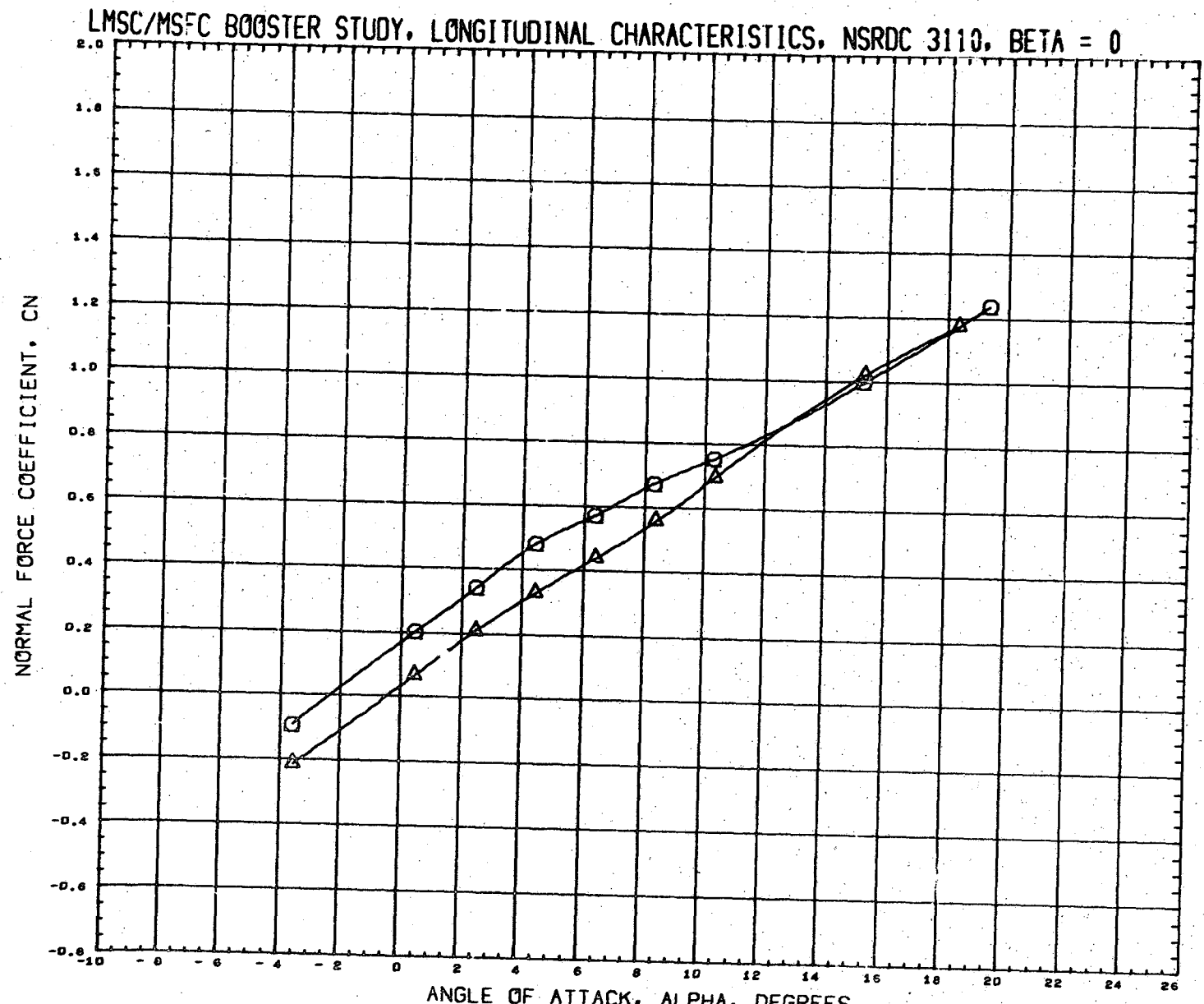
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2134)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000
(RN2150)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000

MACH 0.379

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

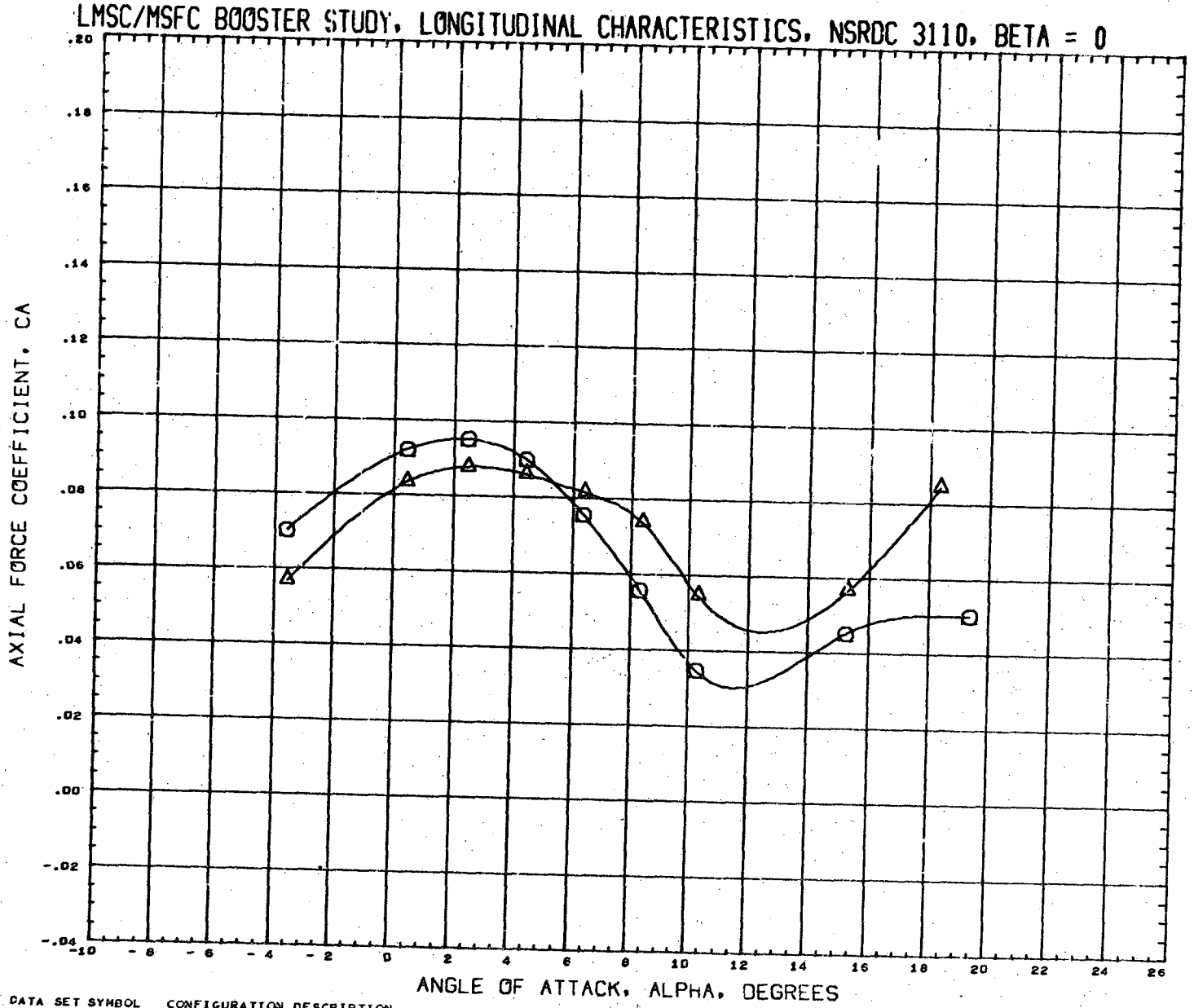


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2141)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000
(RN2157)	△	NSRDC-311C,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION

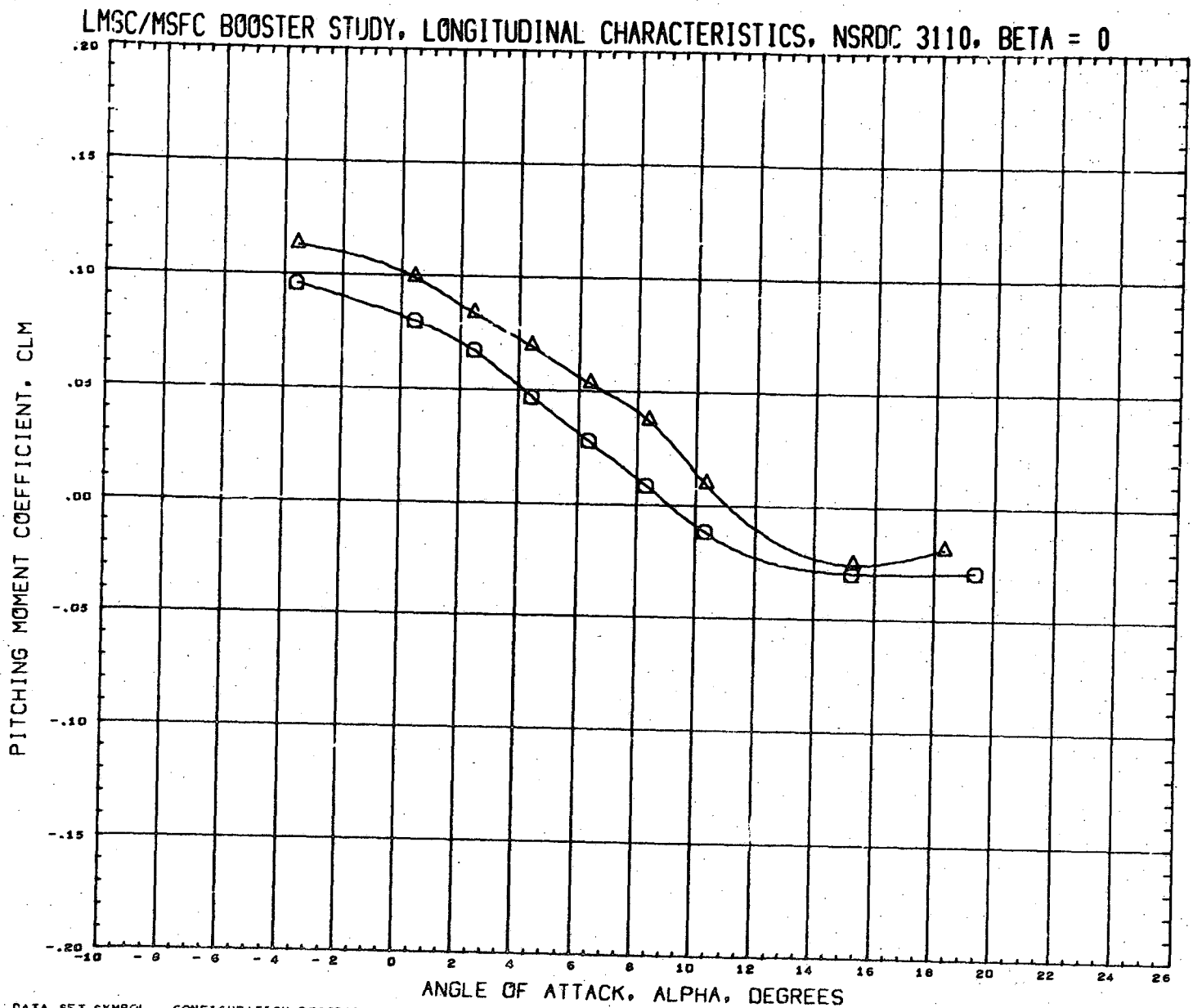
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2141)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000
(RN2157)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.380

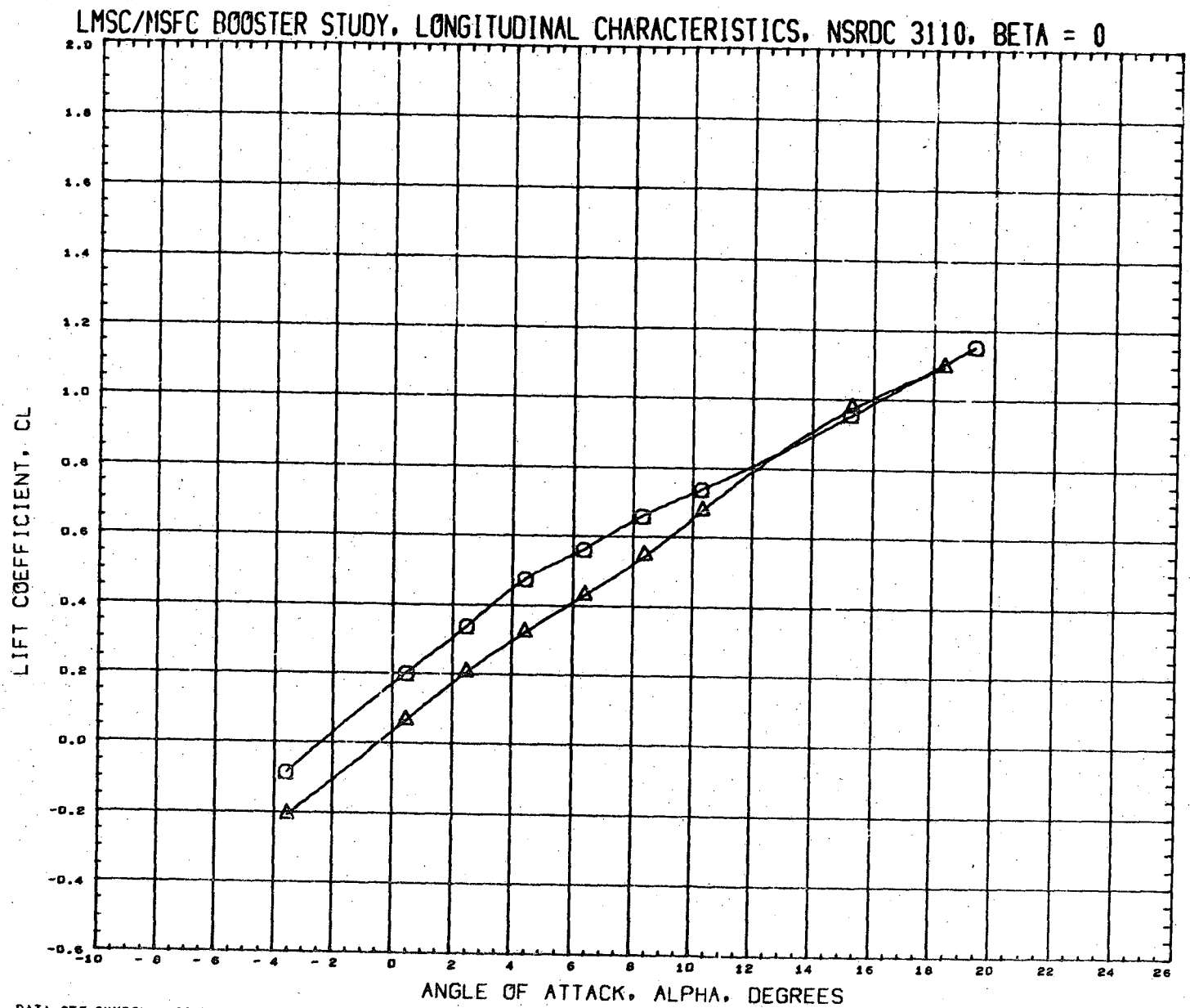
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2141)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000
(RN2157)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

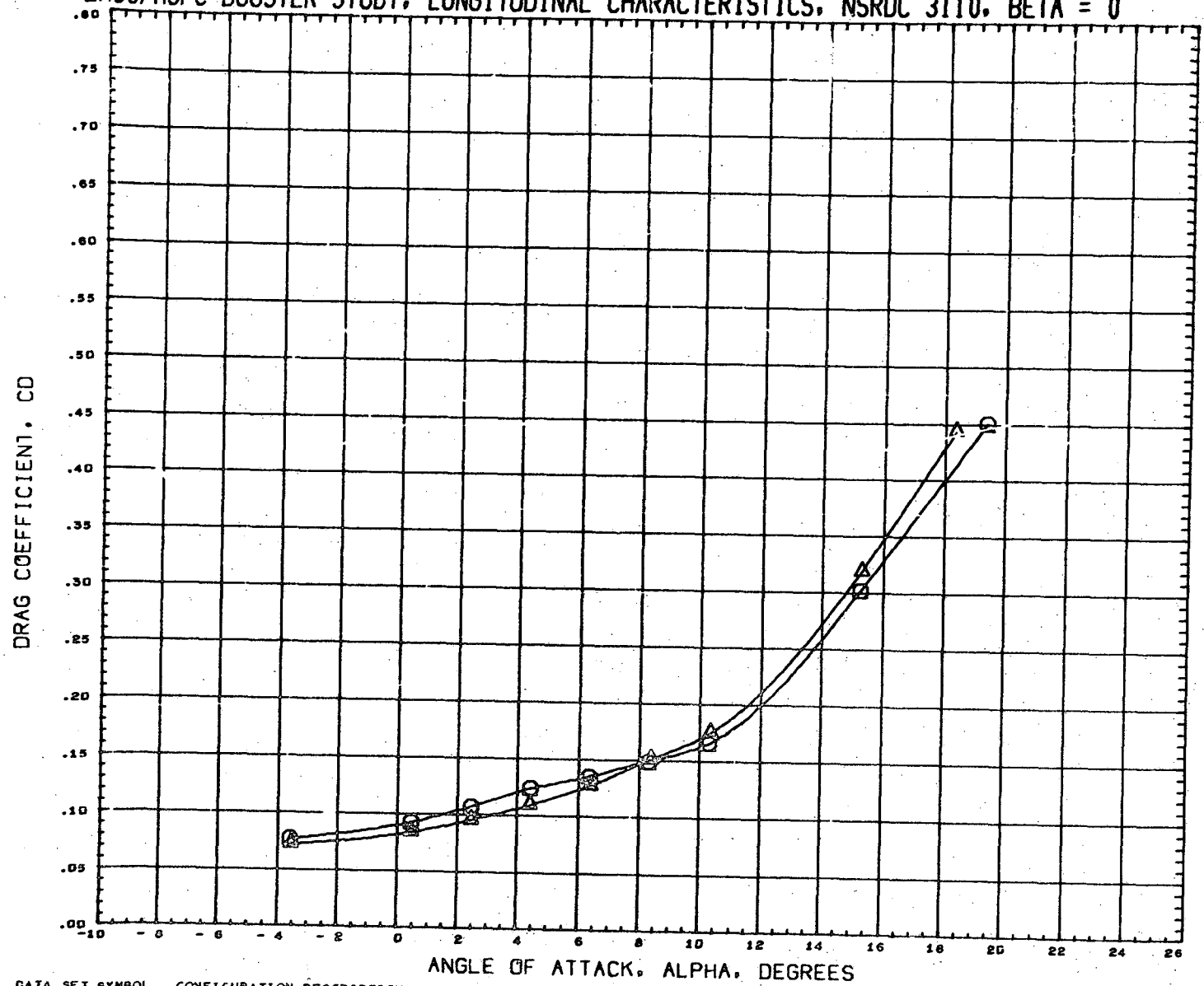


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2141)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000
(RN2157)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

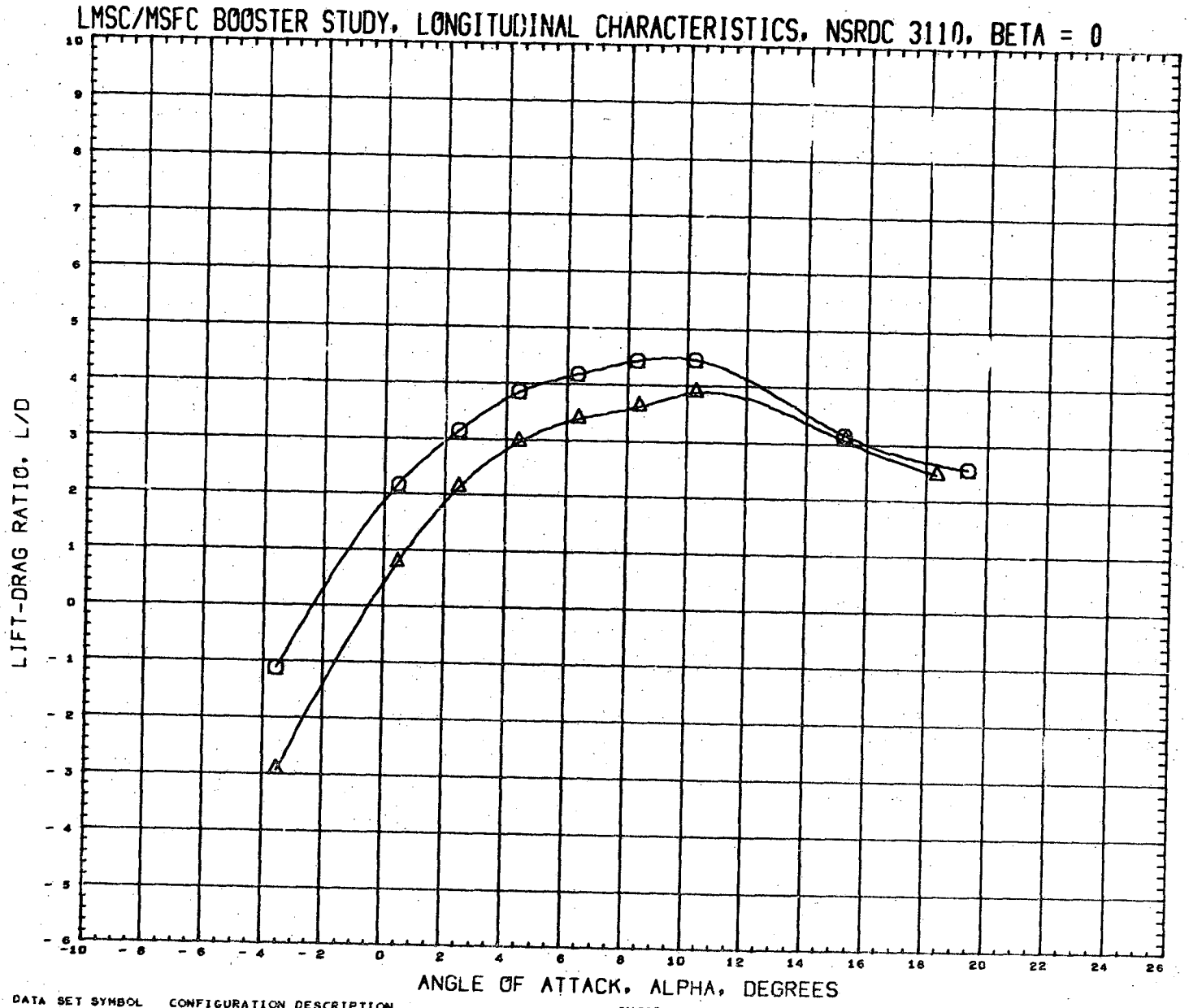
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2141)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000
(RN2157)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2141)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1
(RN2157)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

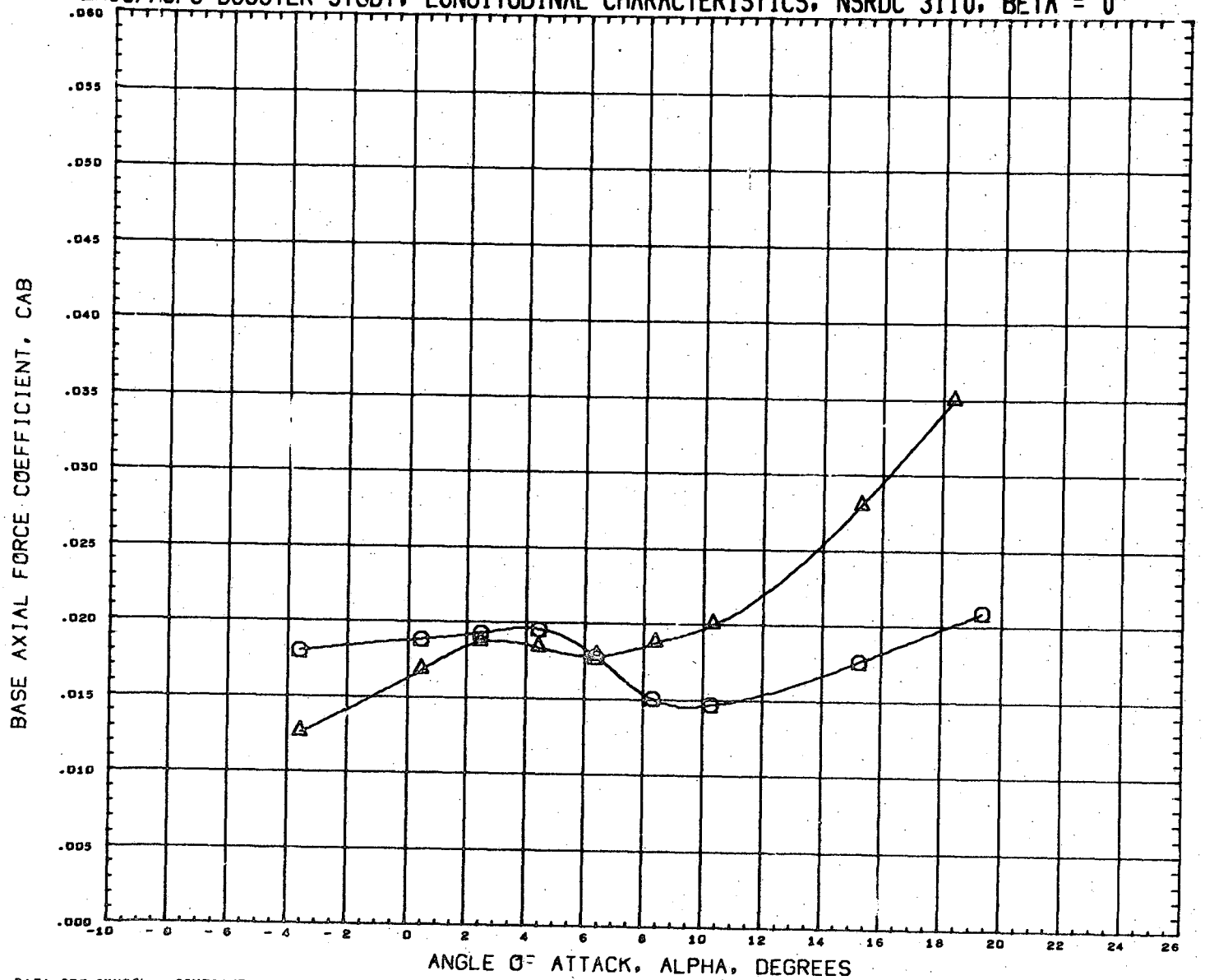
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

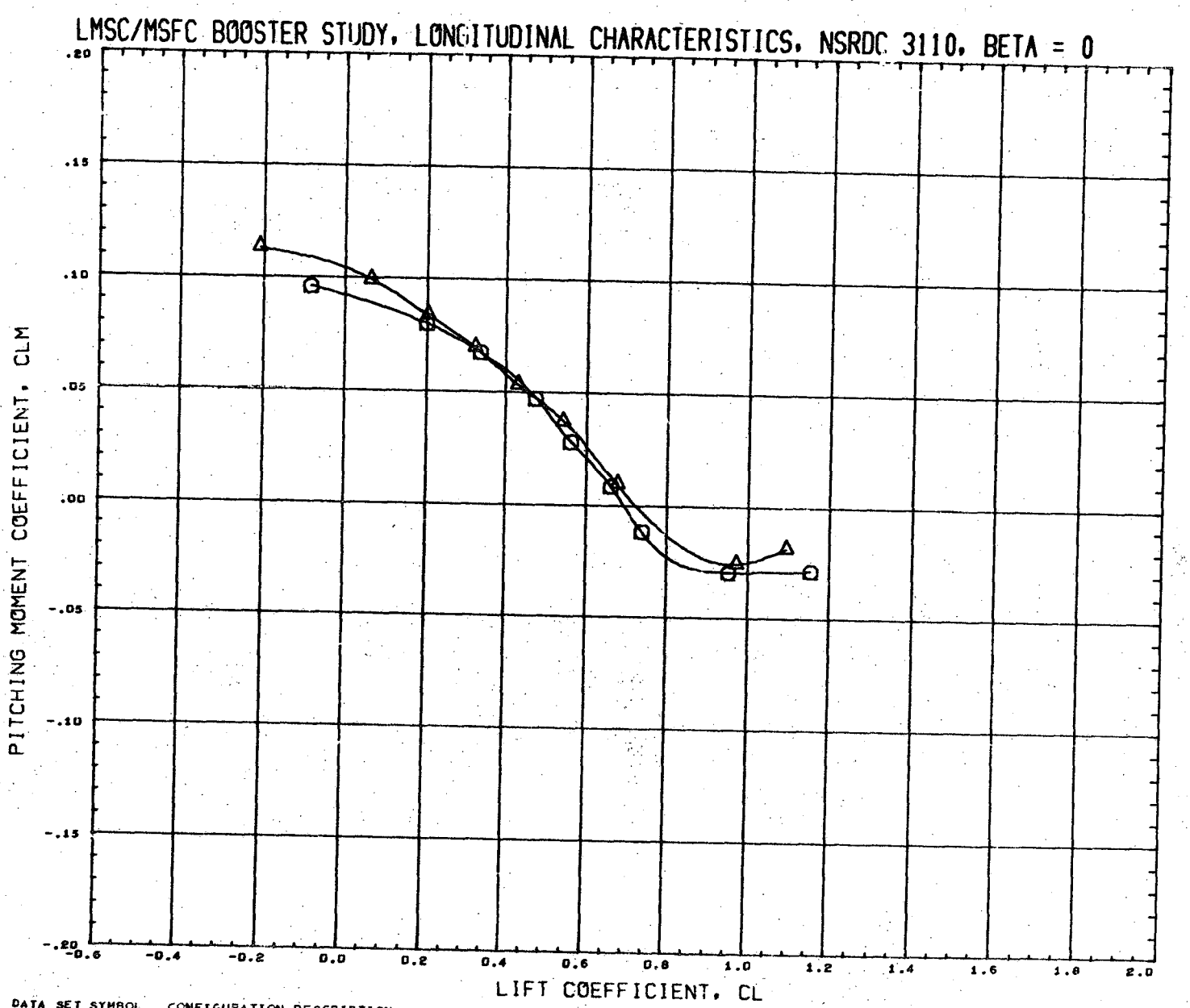
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2141)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000
(RN2157)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.380

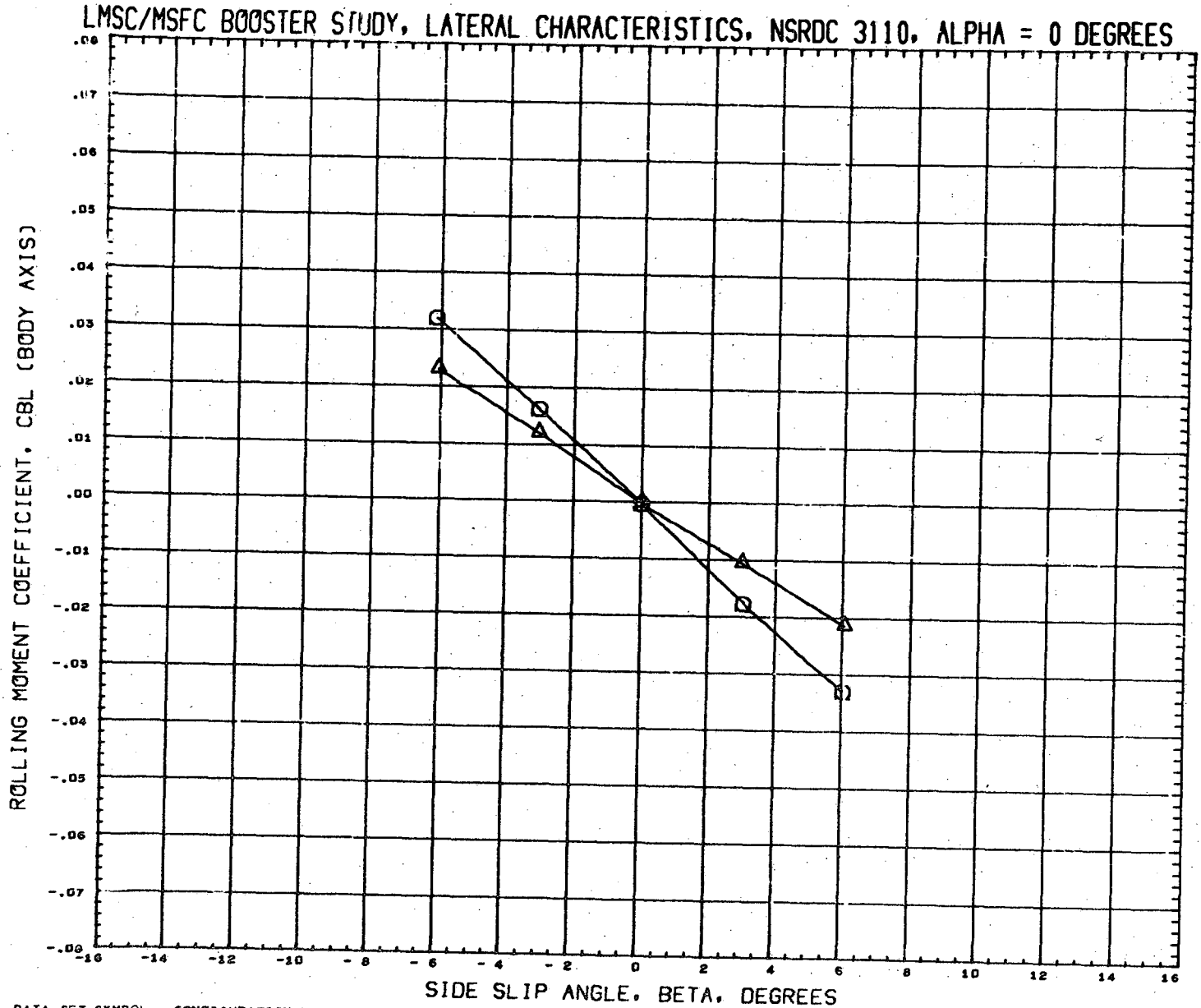
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2141)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000
(RN2157)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.436(	INCHES
BREF	41.436(	INCHES
XMRP	31.140(	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



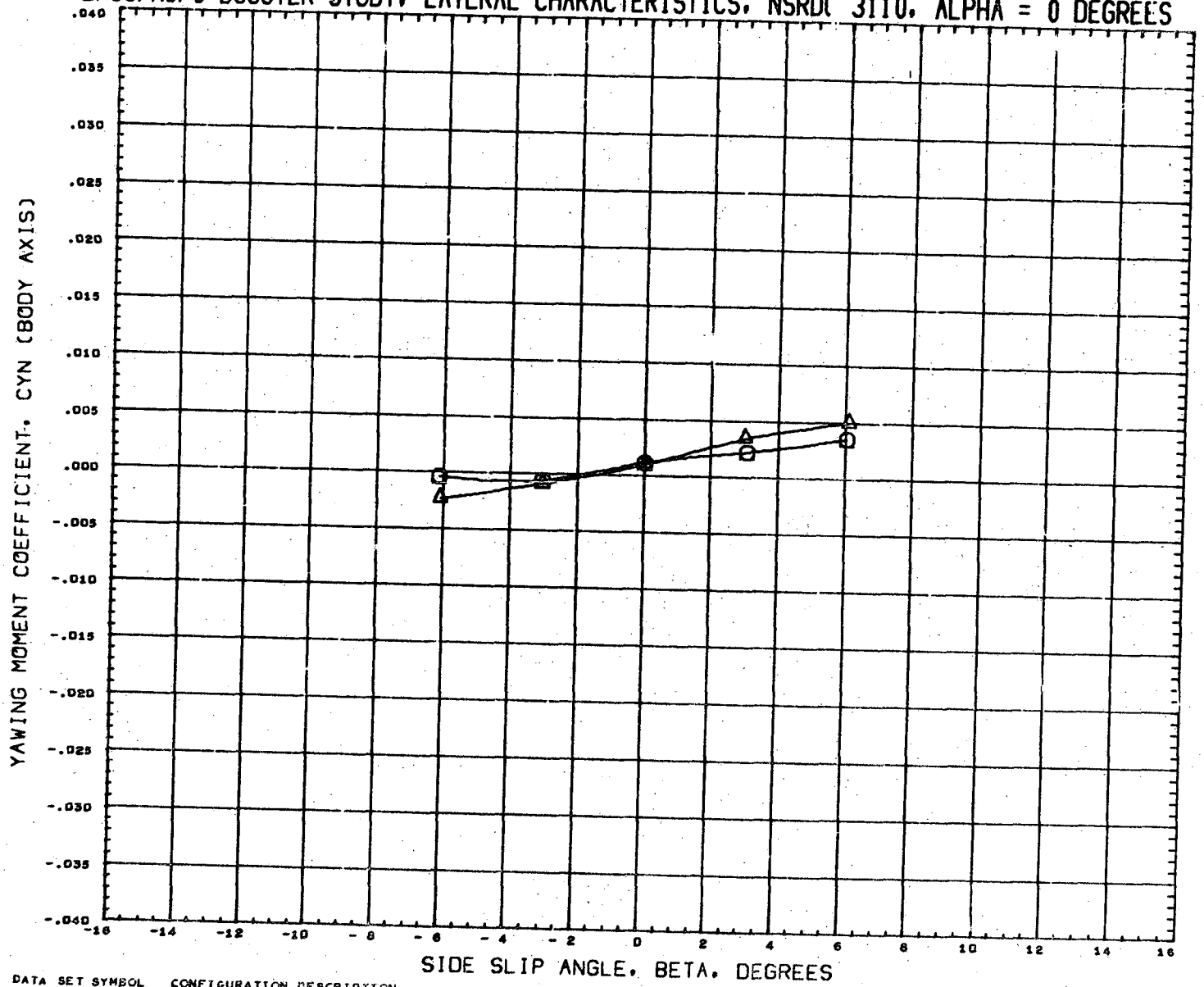
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2142) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000
(RN2158) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

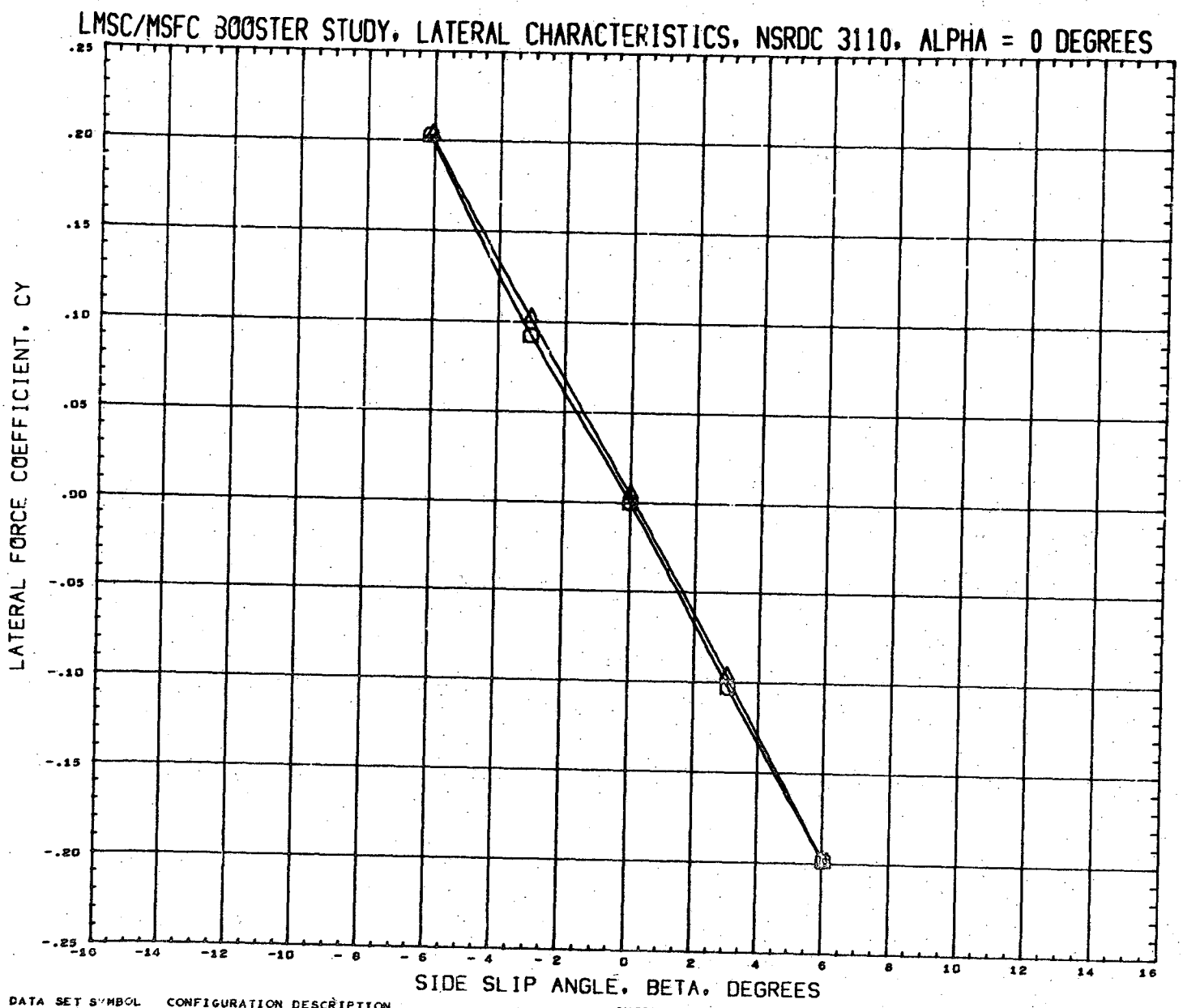
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2142)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000
(RN2158)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.360

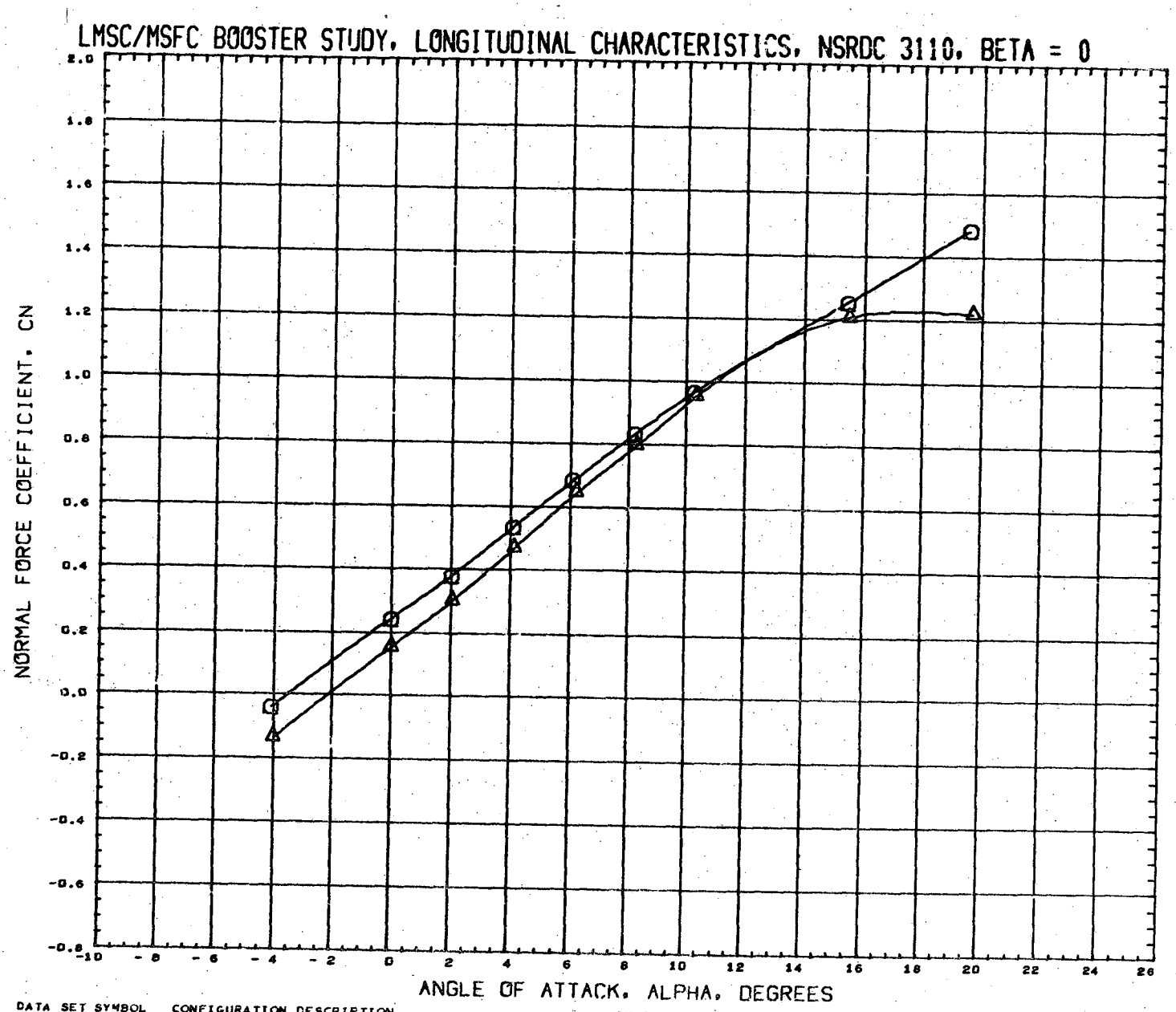
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2142)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000
(RN2150)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

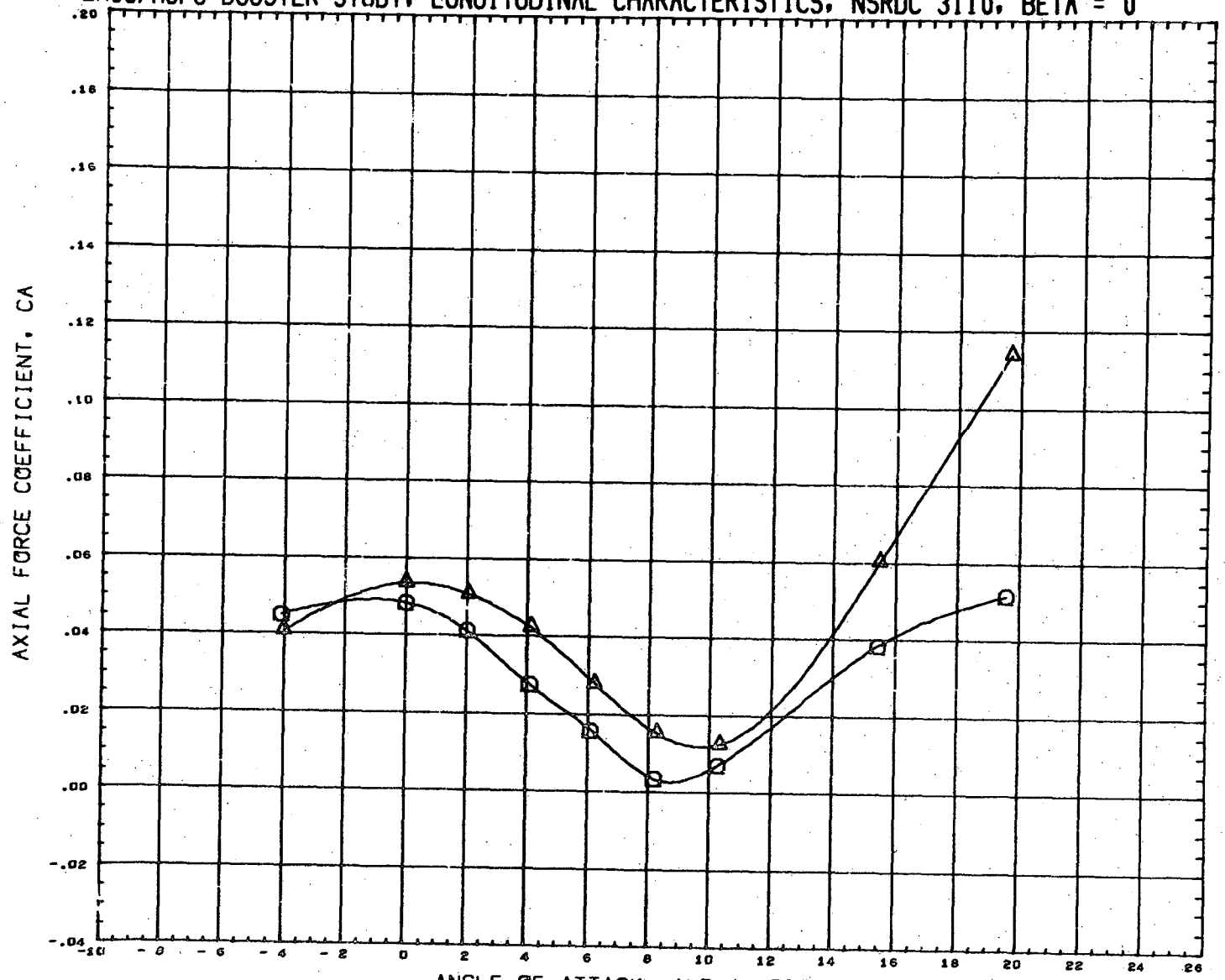


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS
(RN2097)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2113)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

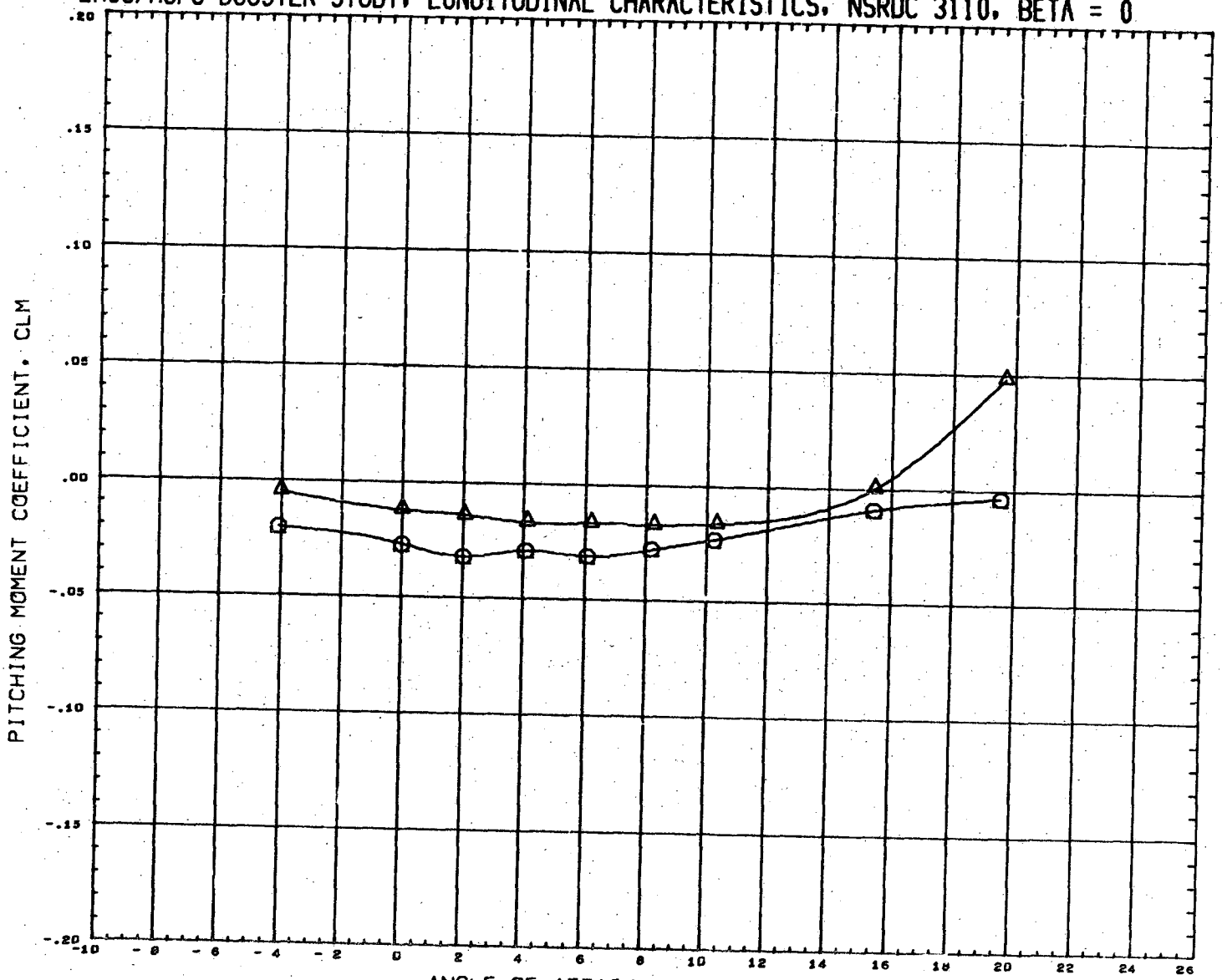


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2113)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BØOSTER STUDY, LØNGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



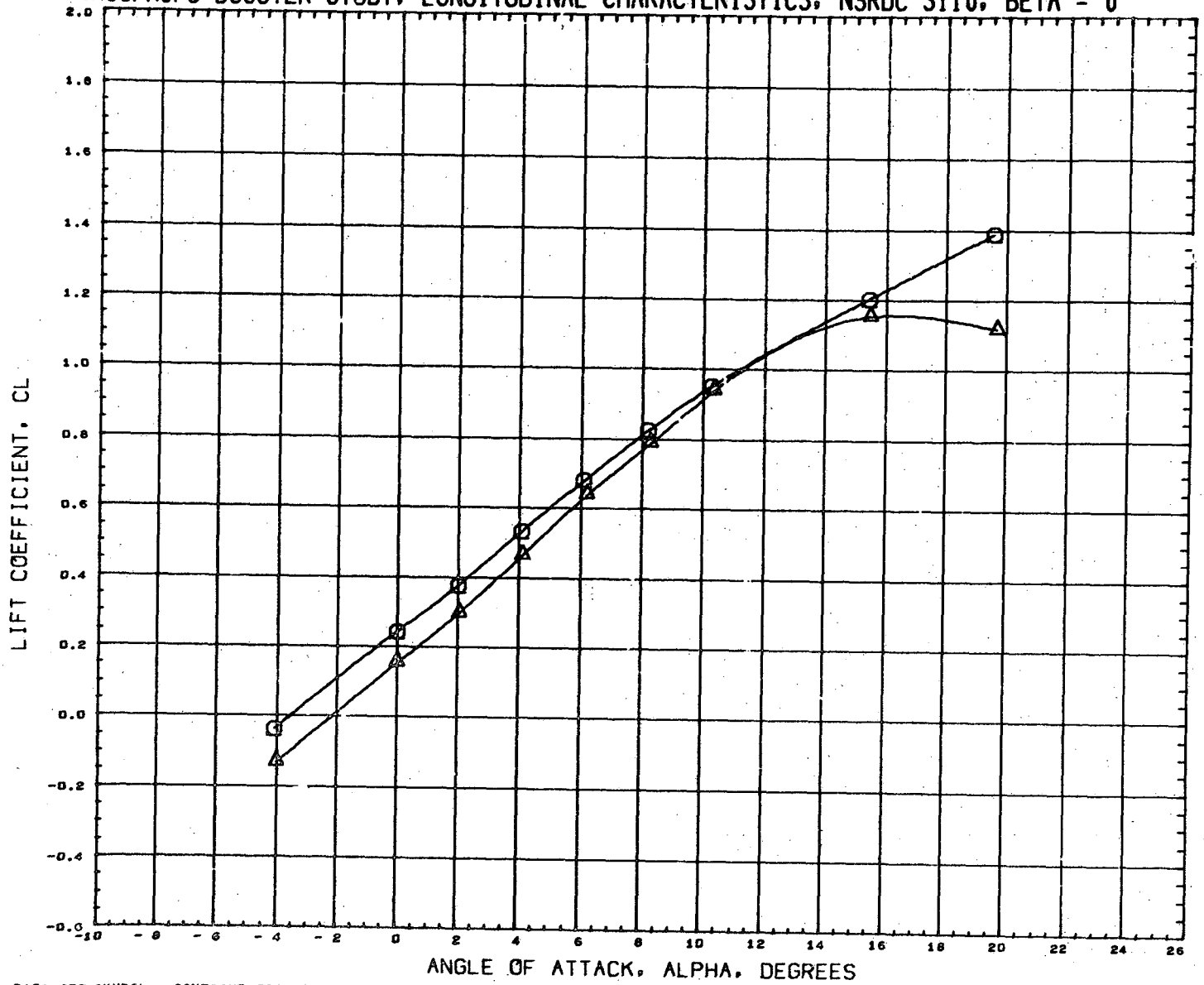
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2097)	Ø	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2113)	Δ	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

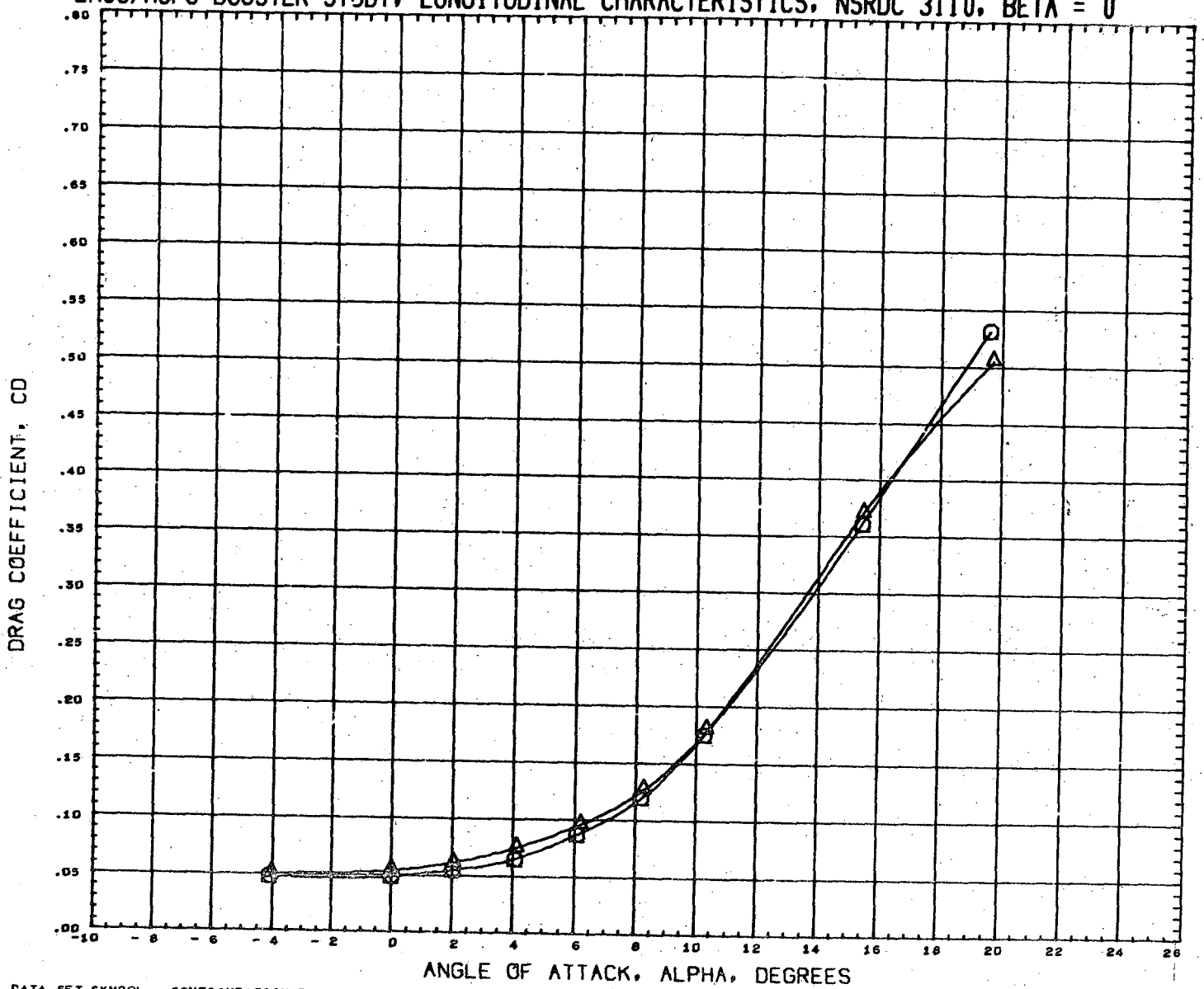


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2113)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2113)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

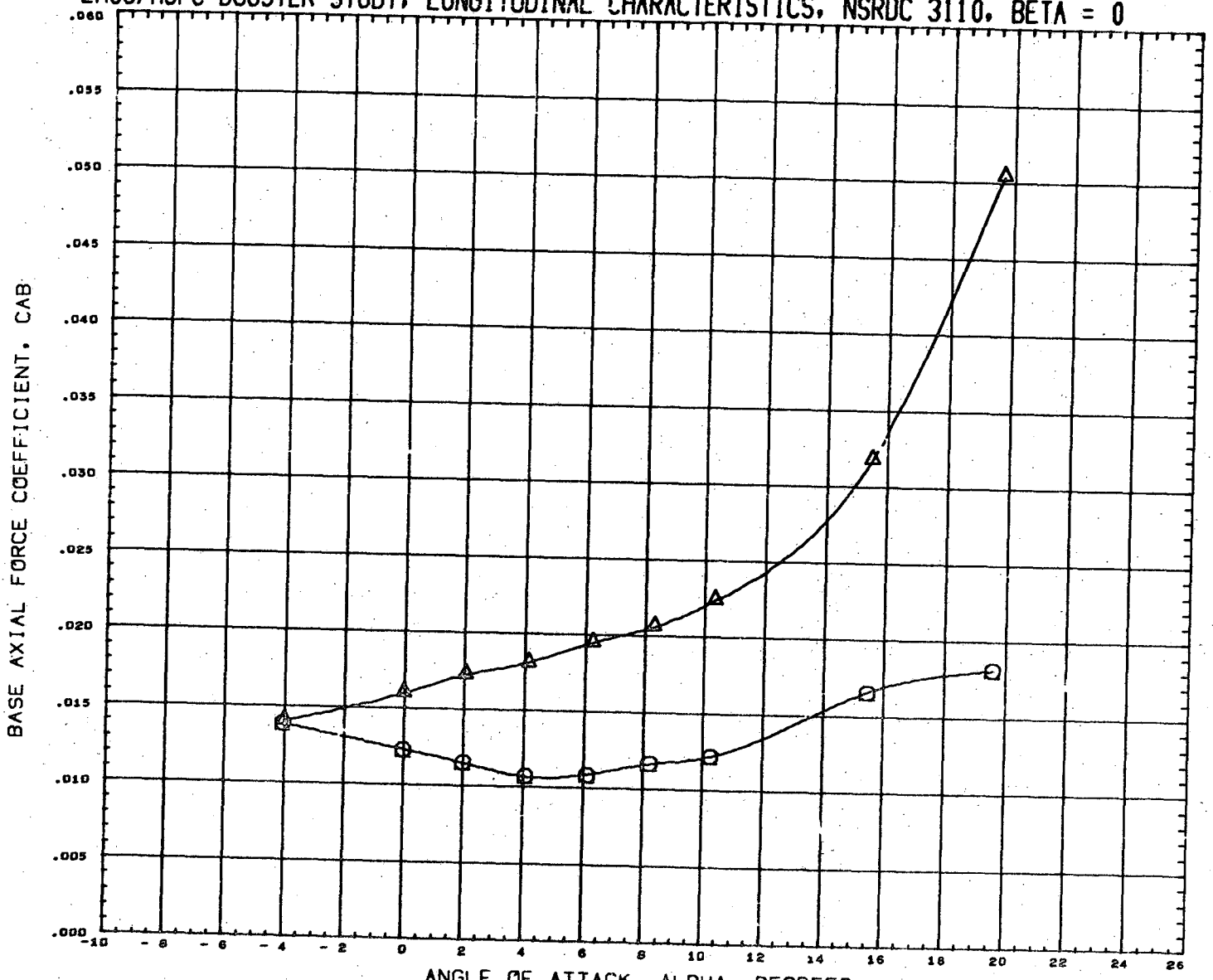
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2113)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

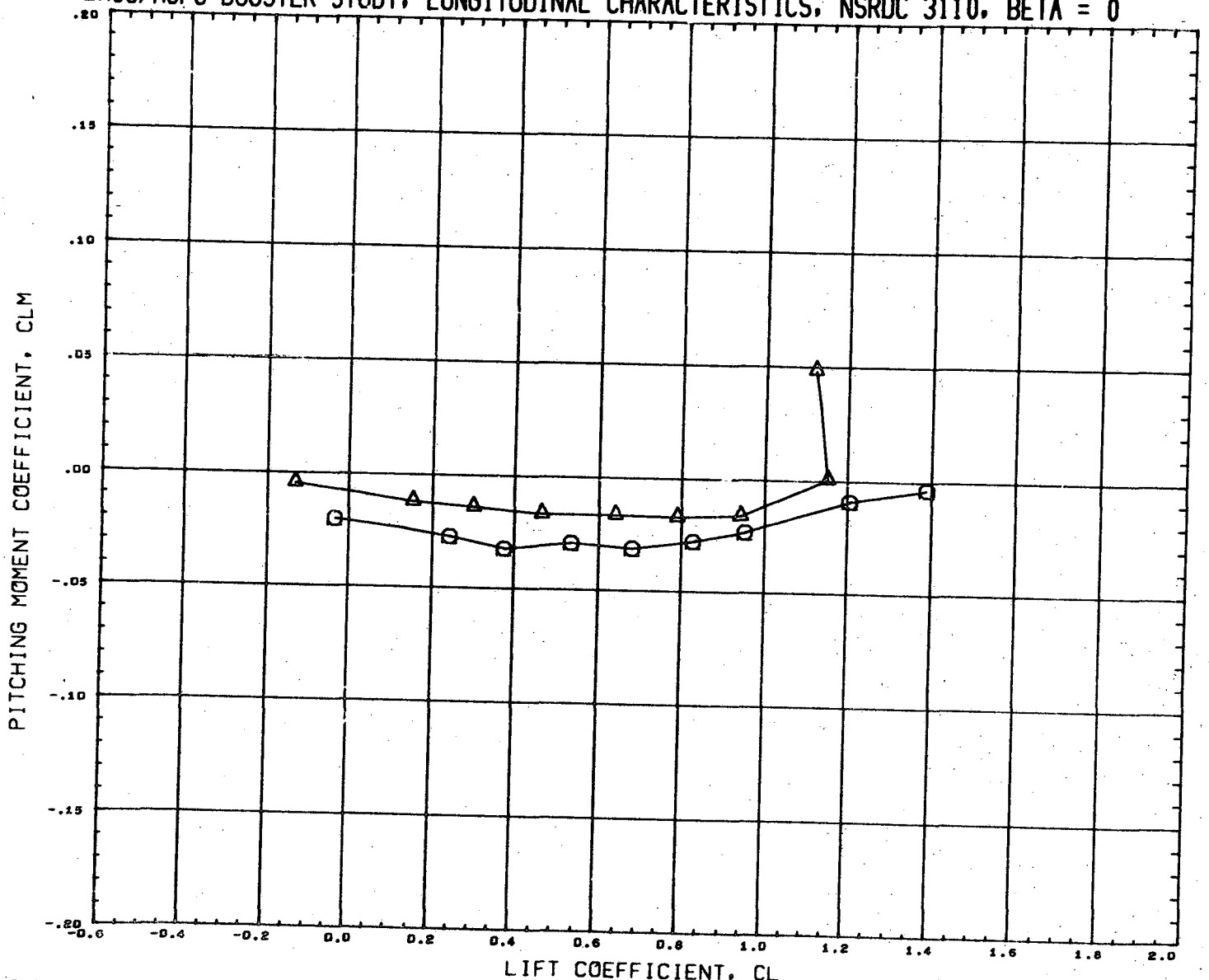


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2113)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



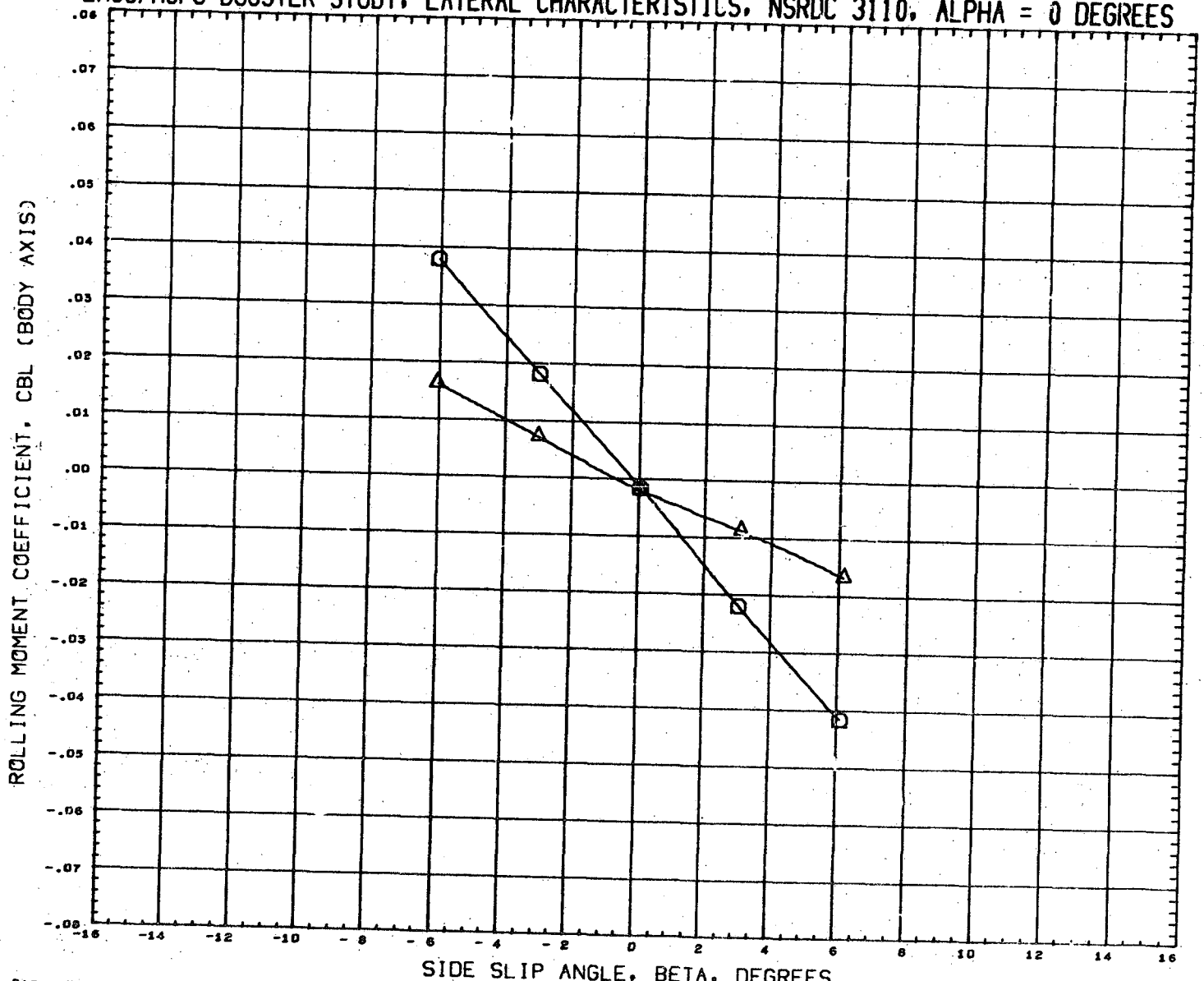
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2097)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2113)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	-3.000	2.000

MACH 0.383

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



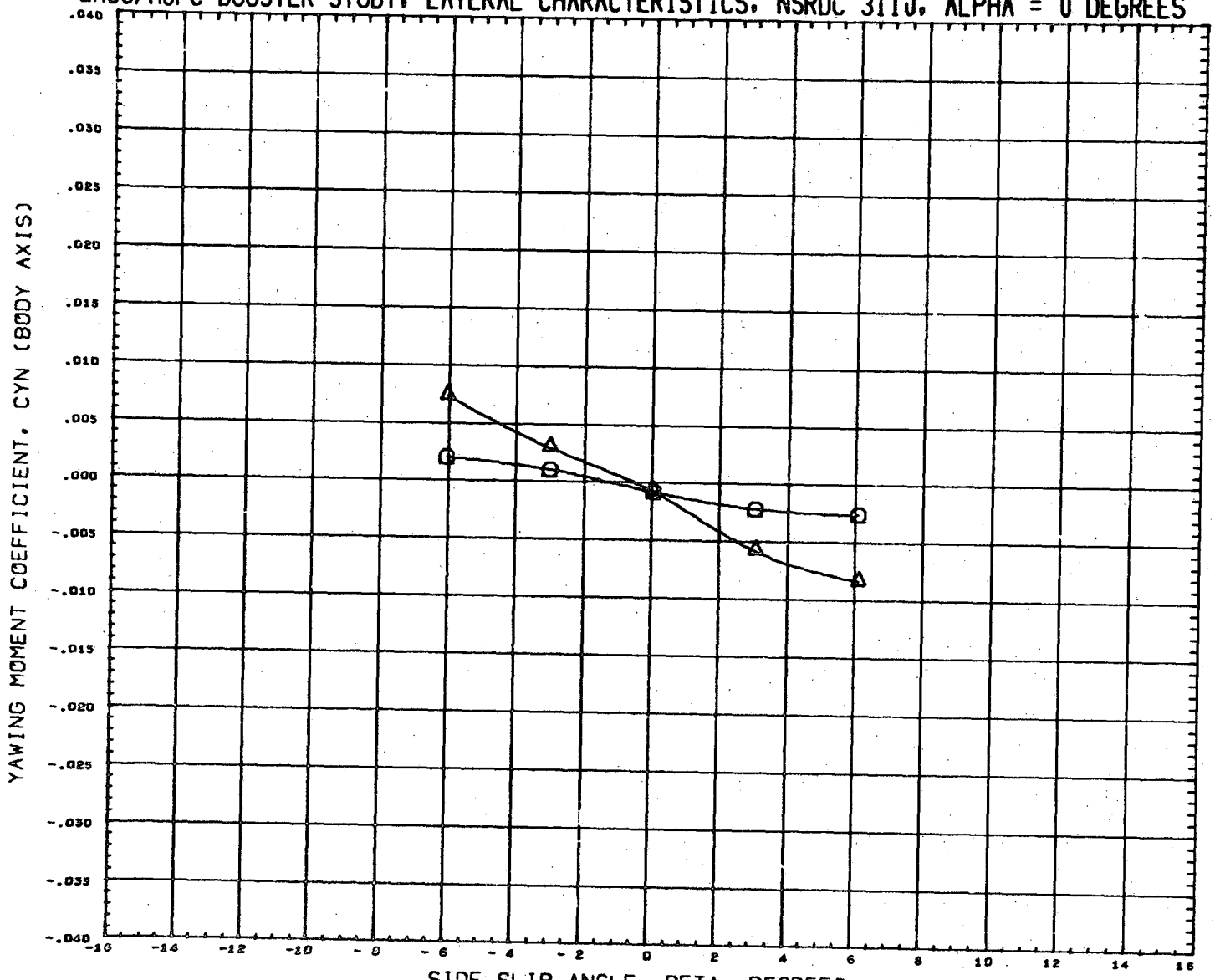
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2098)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2114)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.361

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

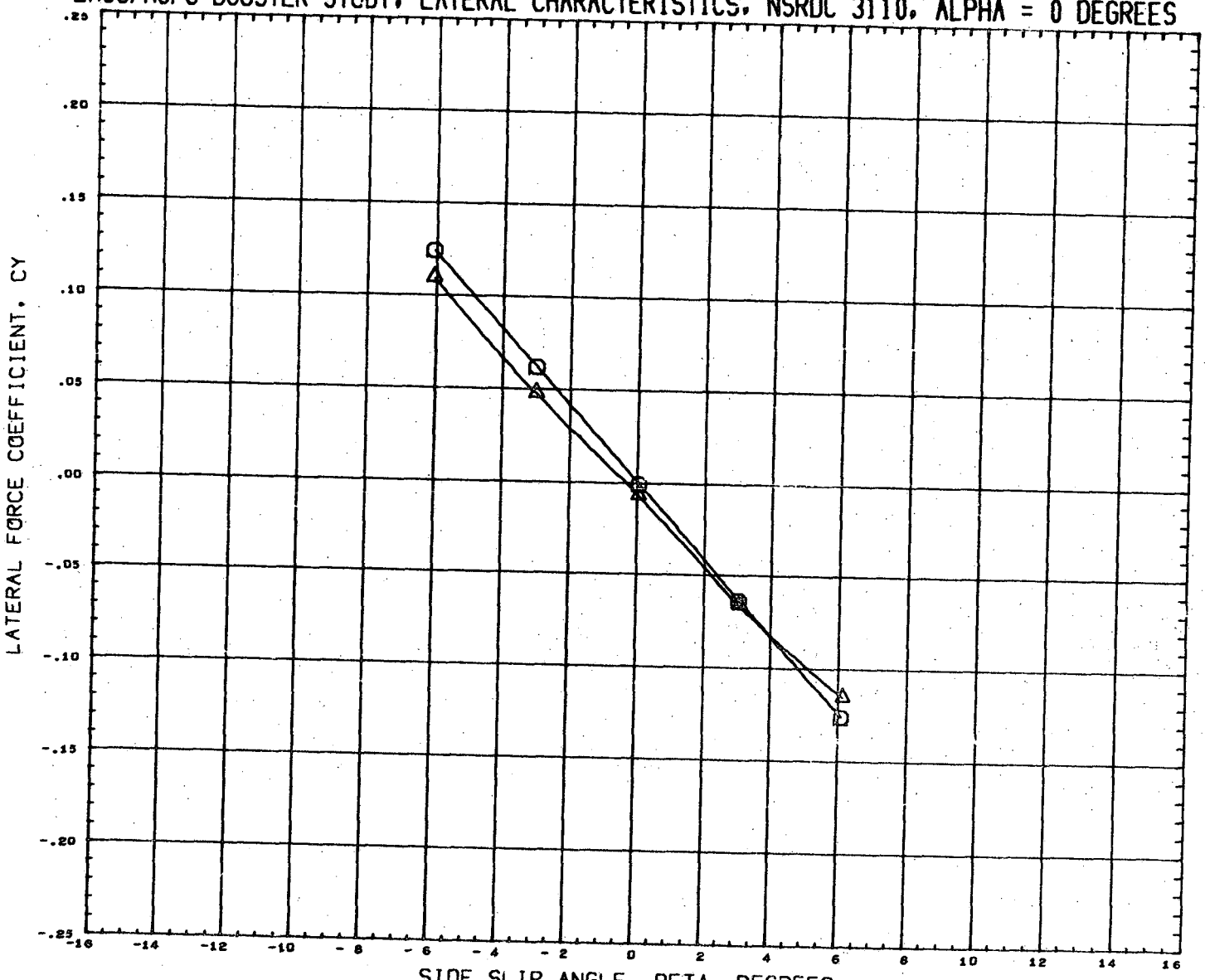


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2098)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2114)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.3000	PERCNT

LMSC/MSFC BØOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

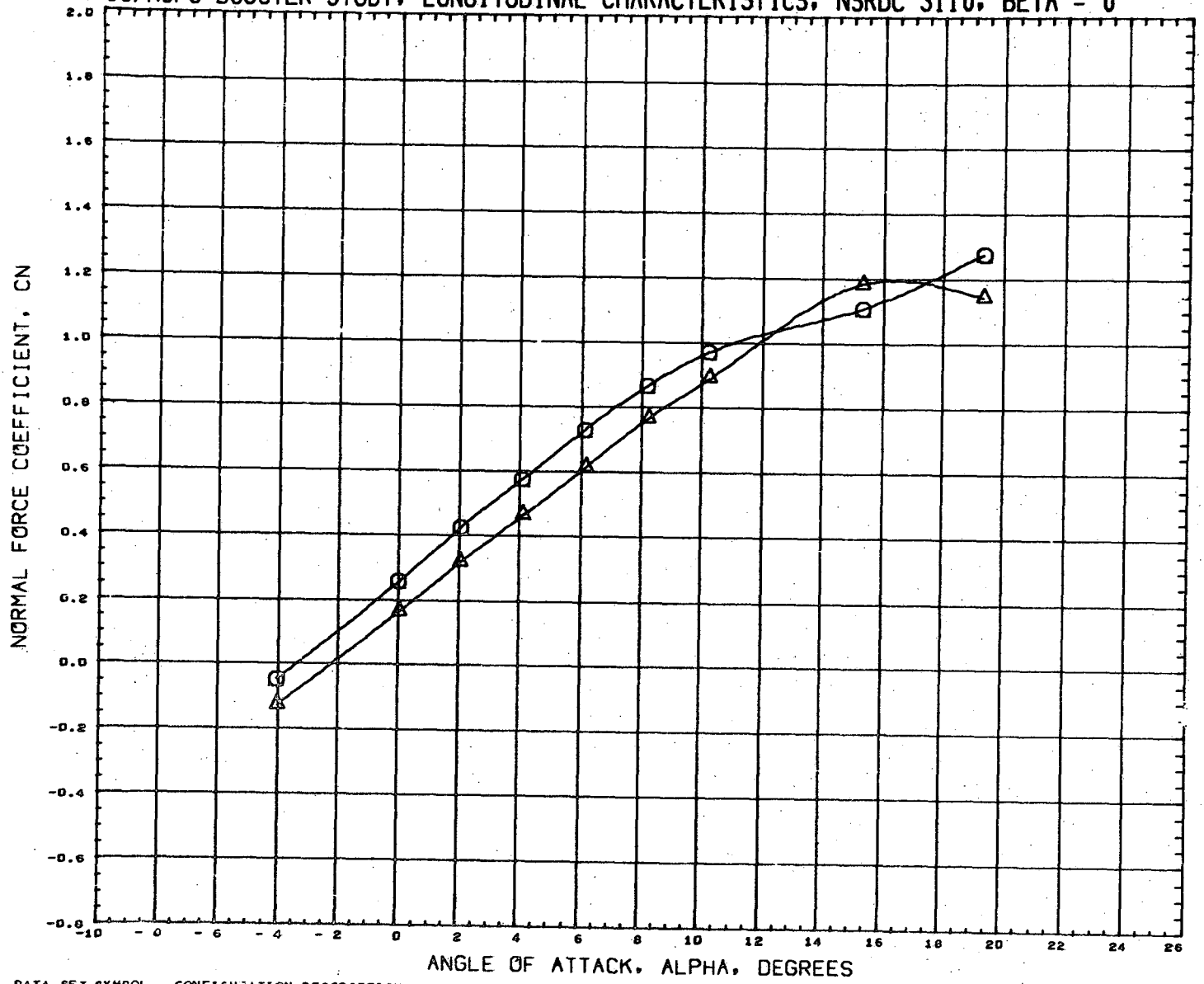


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2098)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000
(RN2114)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



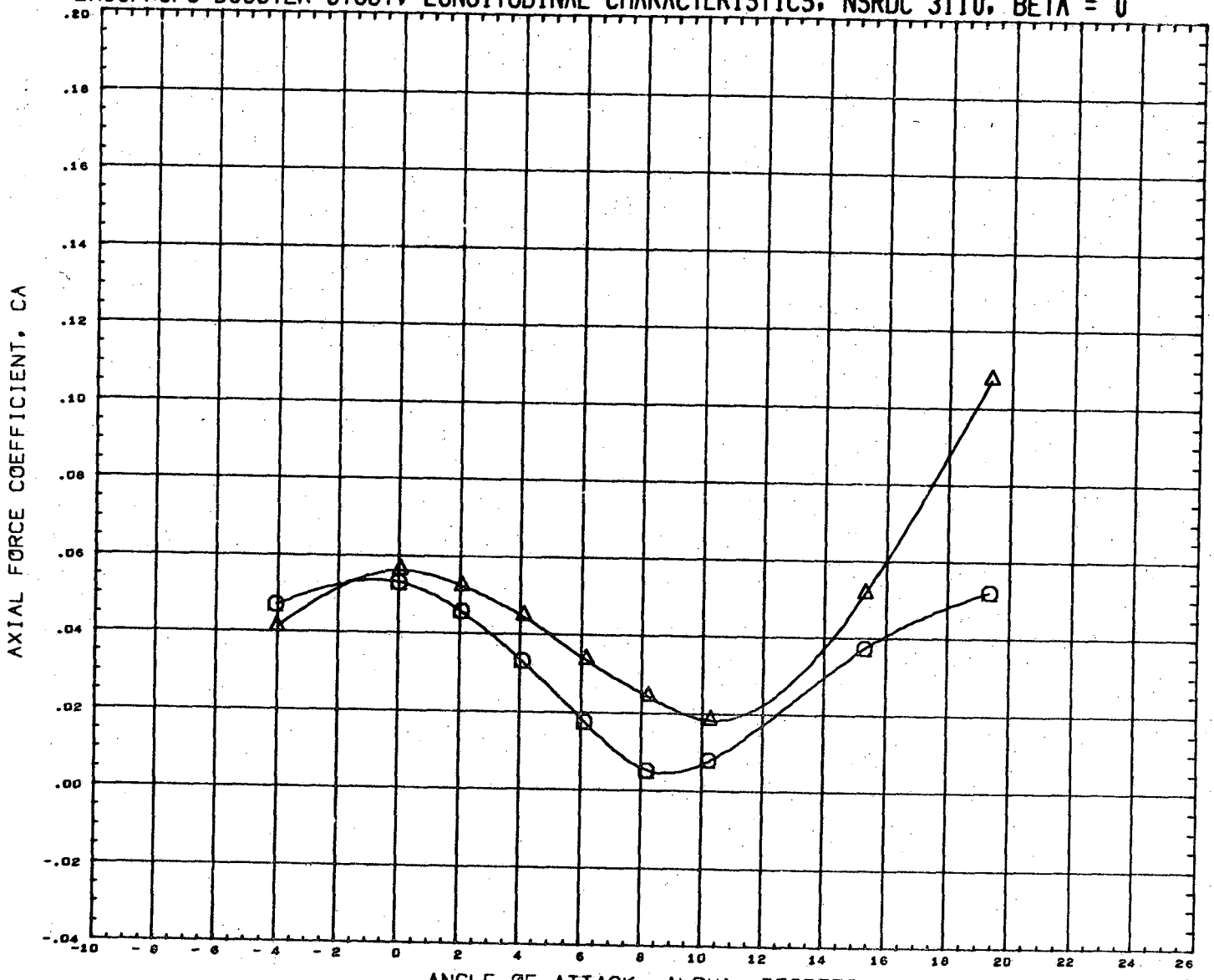
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2121)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

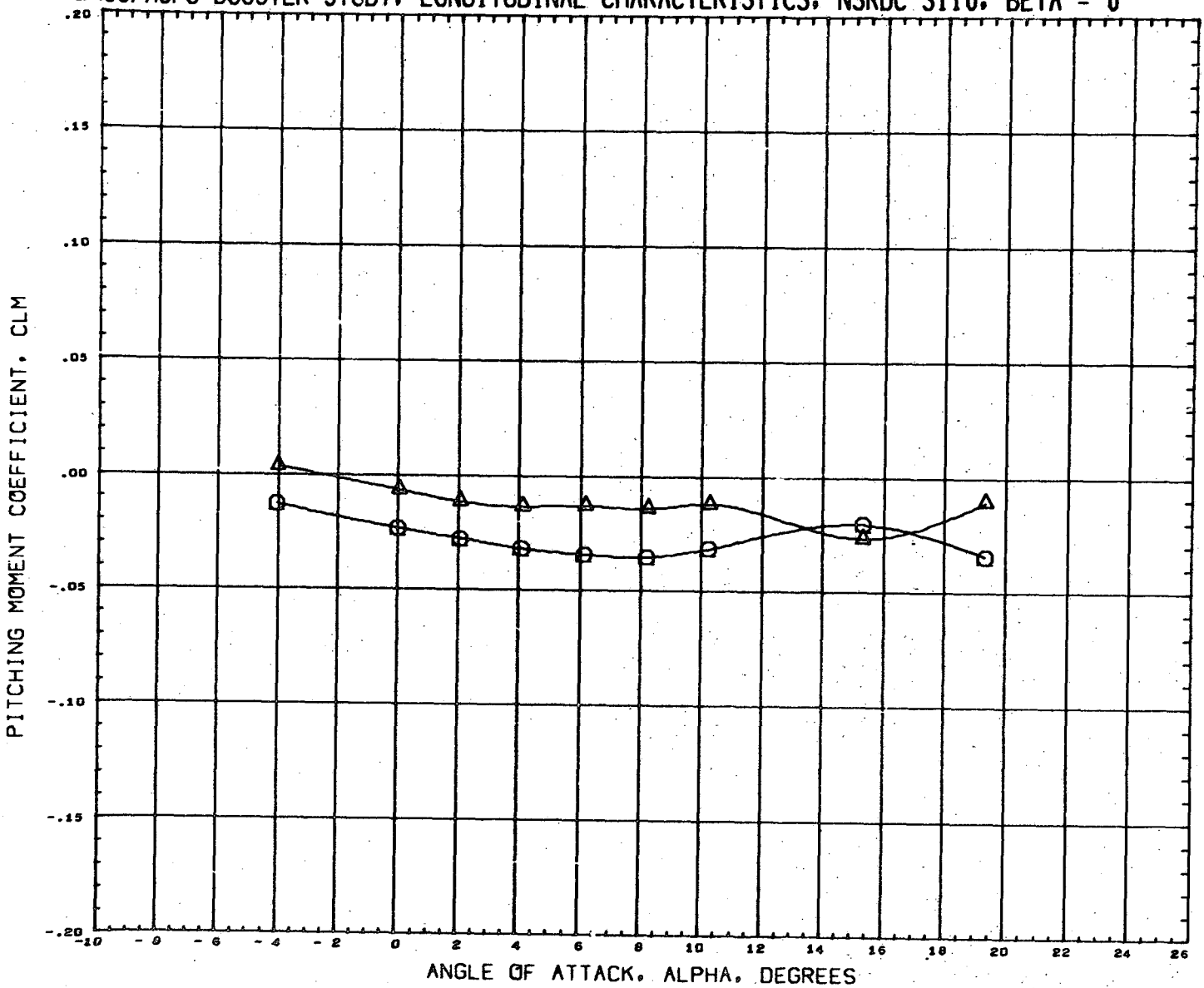


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2121)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

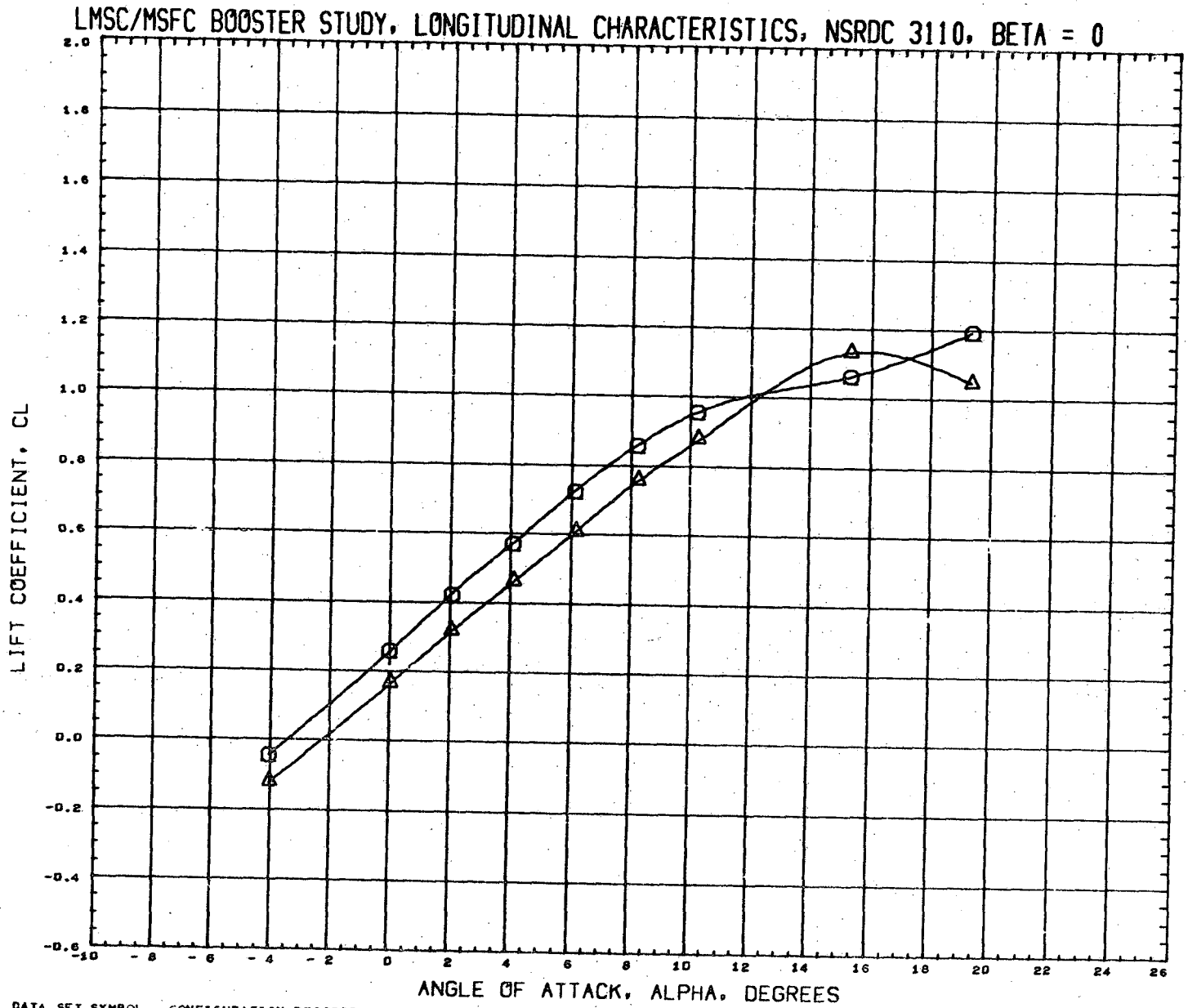
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2121)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

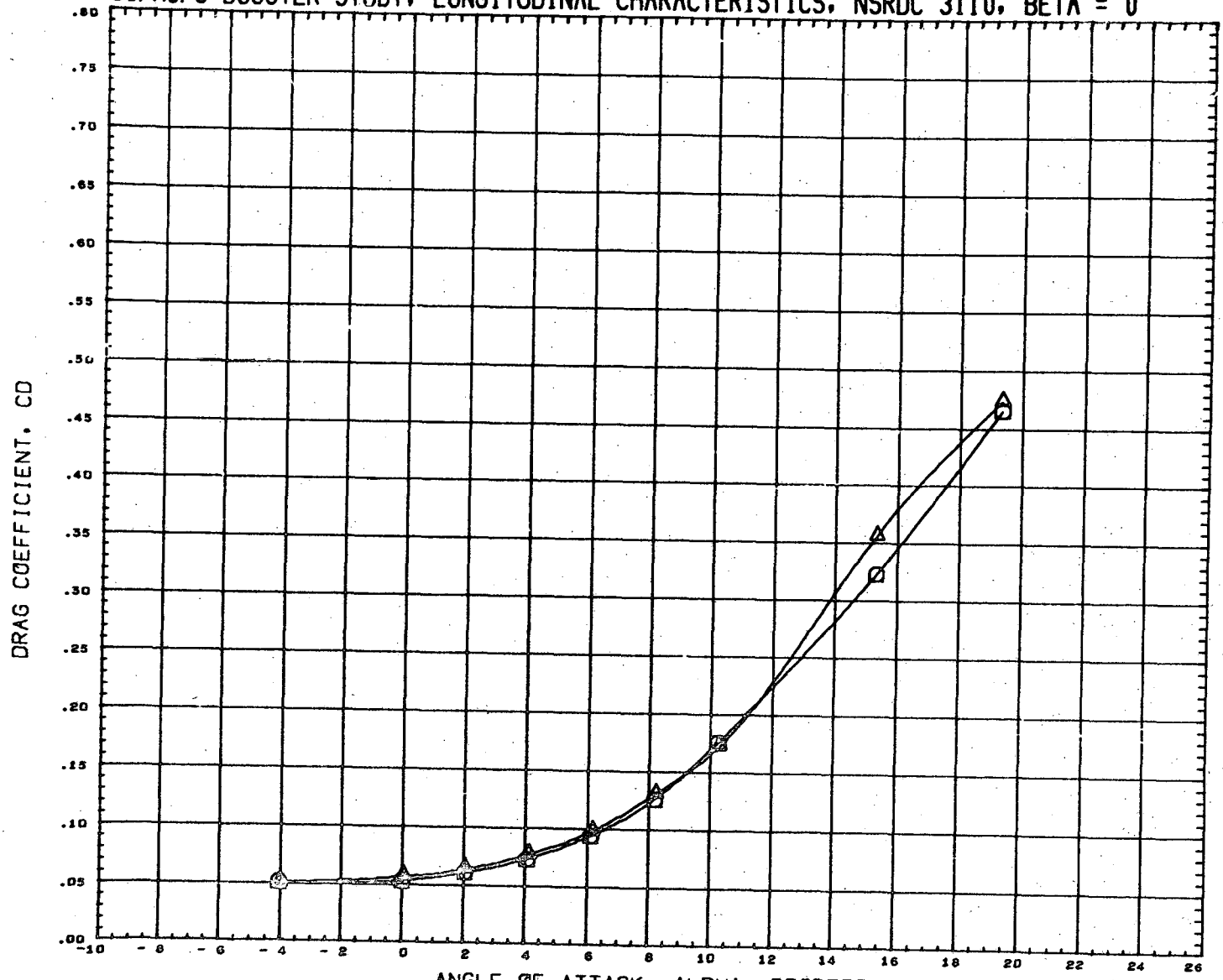


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2121)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2121)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000

MACH 0.381

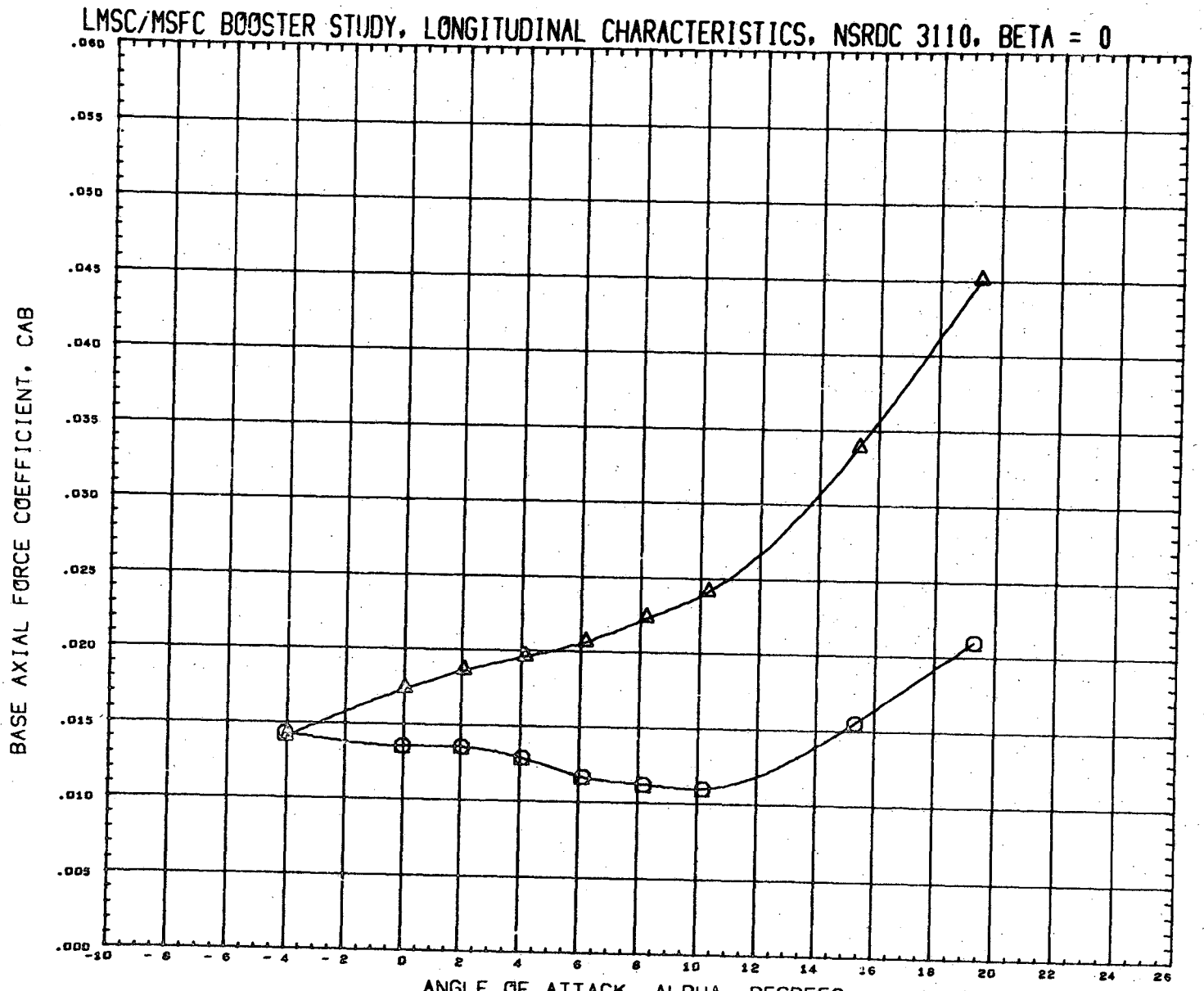
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)	O	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2121)	Δ	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000

MACH 0.361

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4350	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



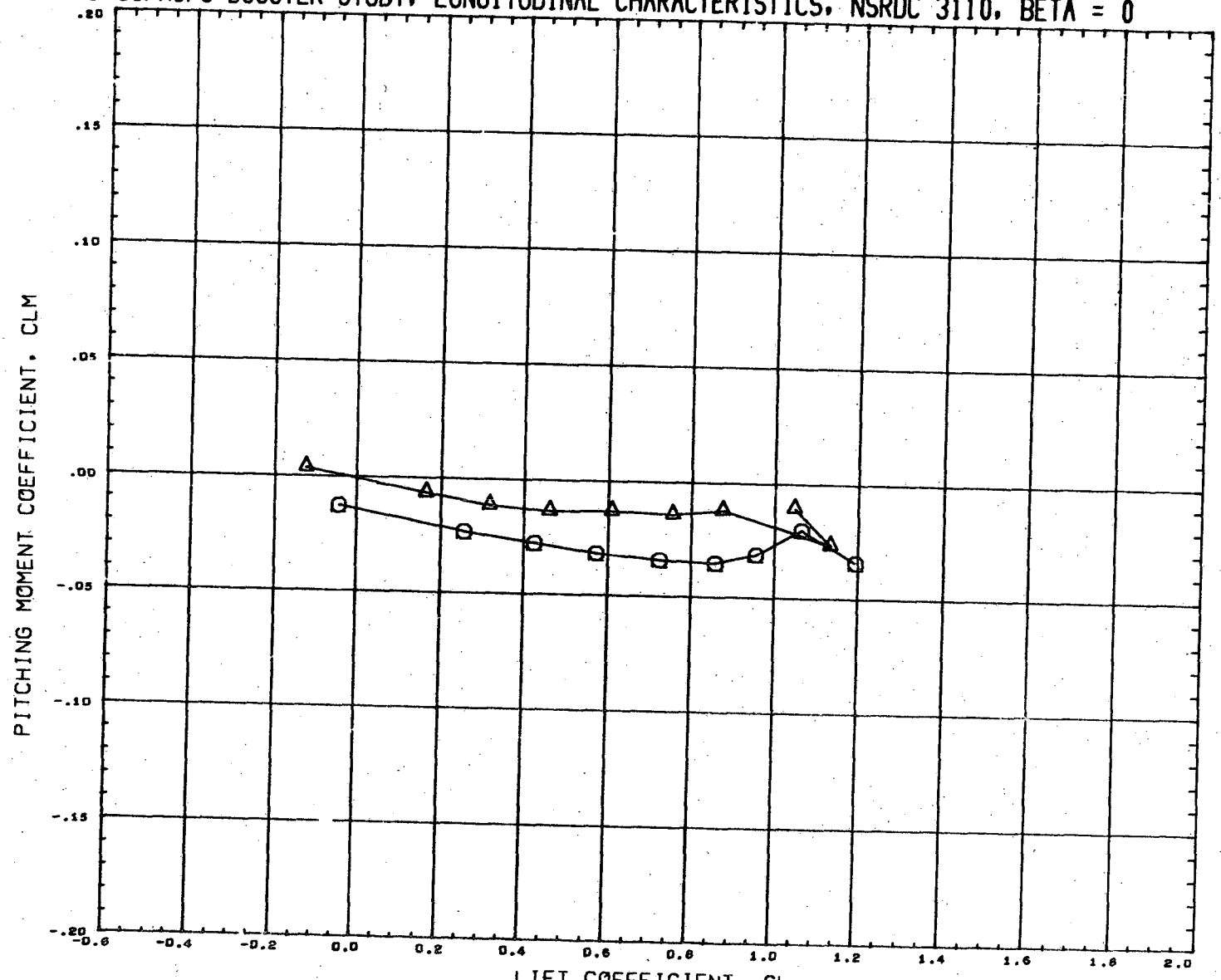
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2121)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

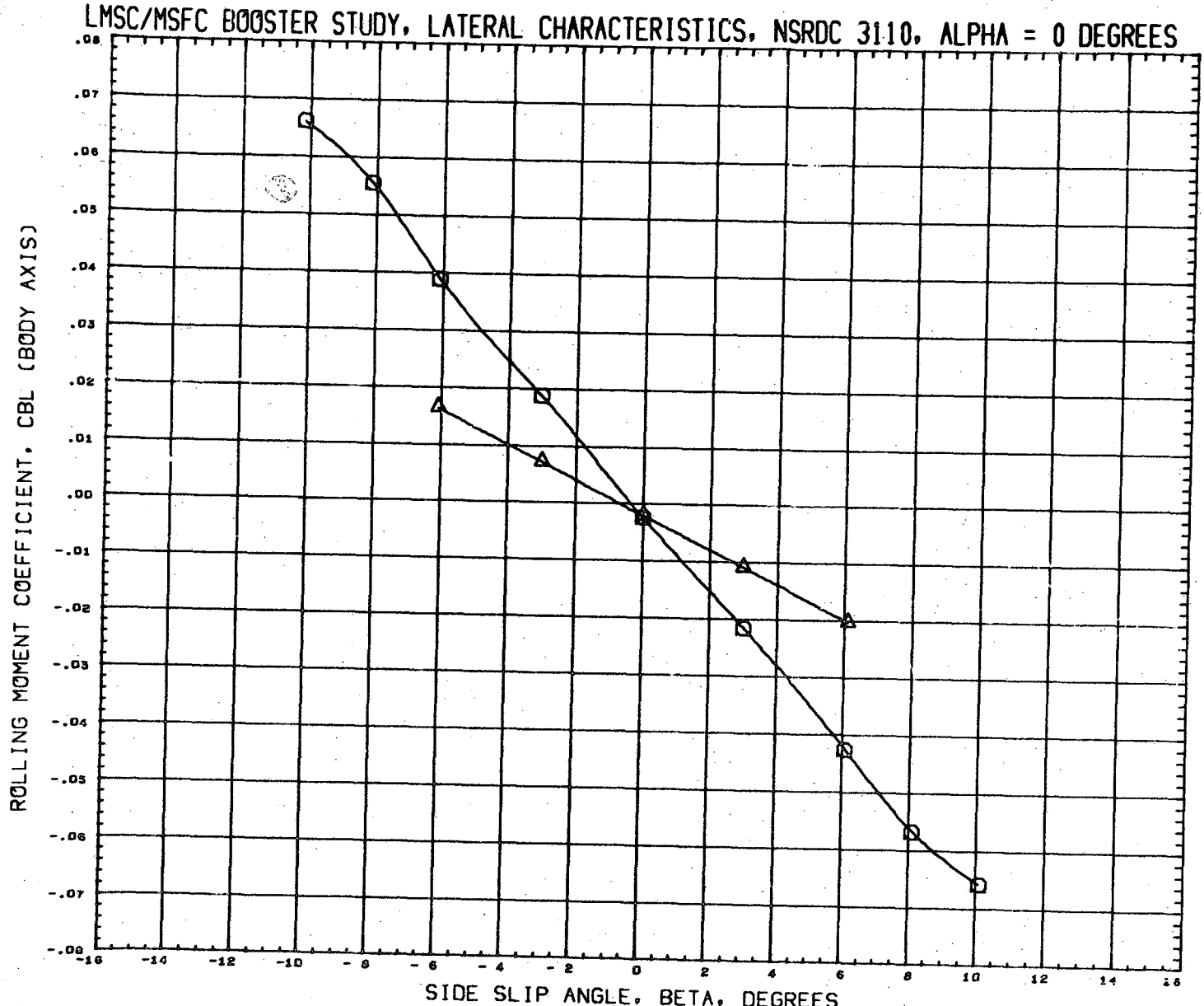
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2105)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2121)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000

MACH 0.381

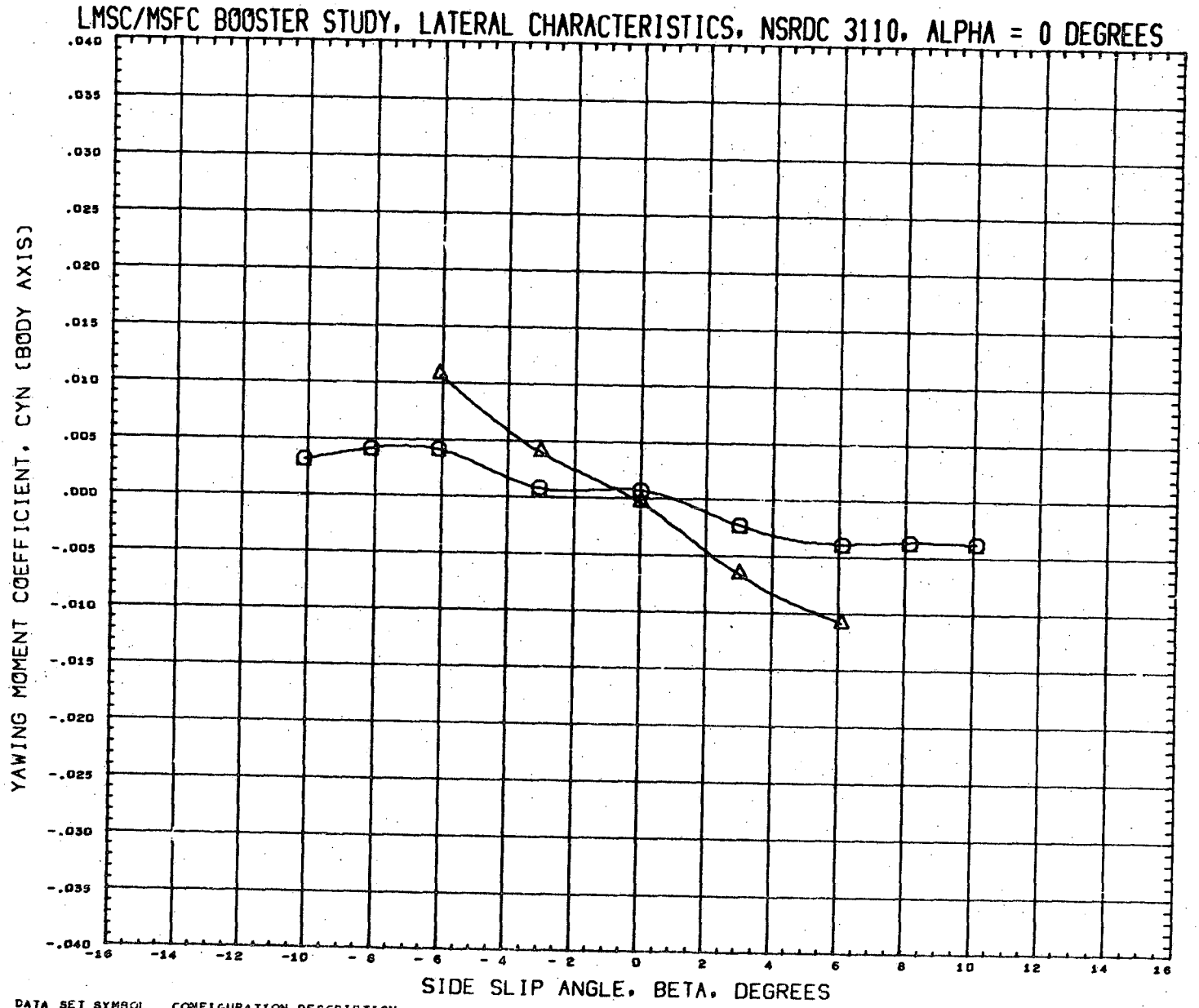
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2106)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2122)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000

MACH 0.378

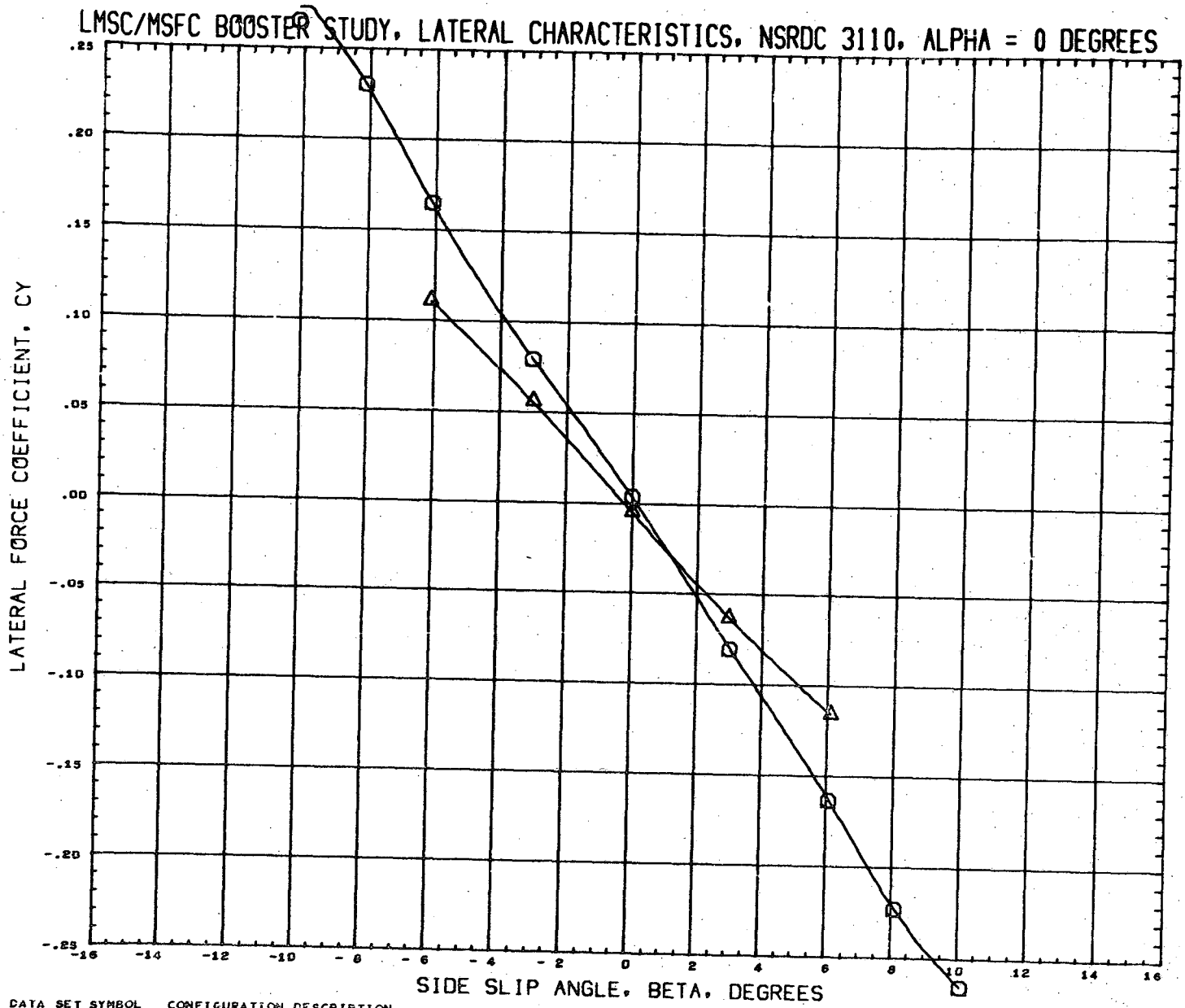
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2106)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000
(RN2122)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000

MACH 0.378

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

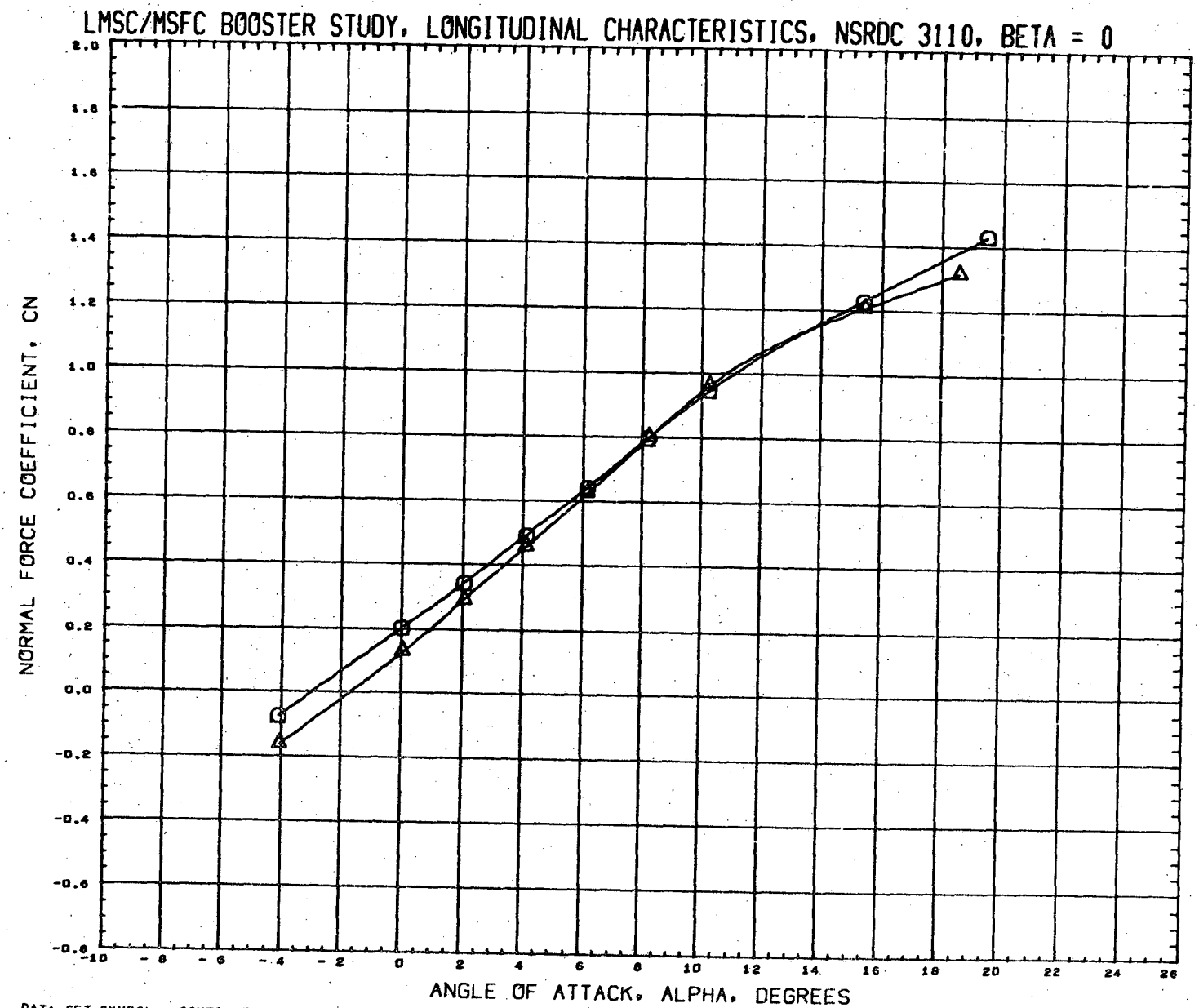


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2106)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2122)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.378

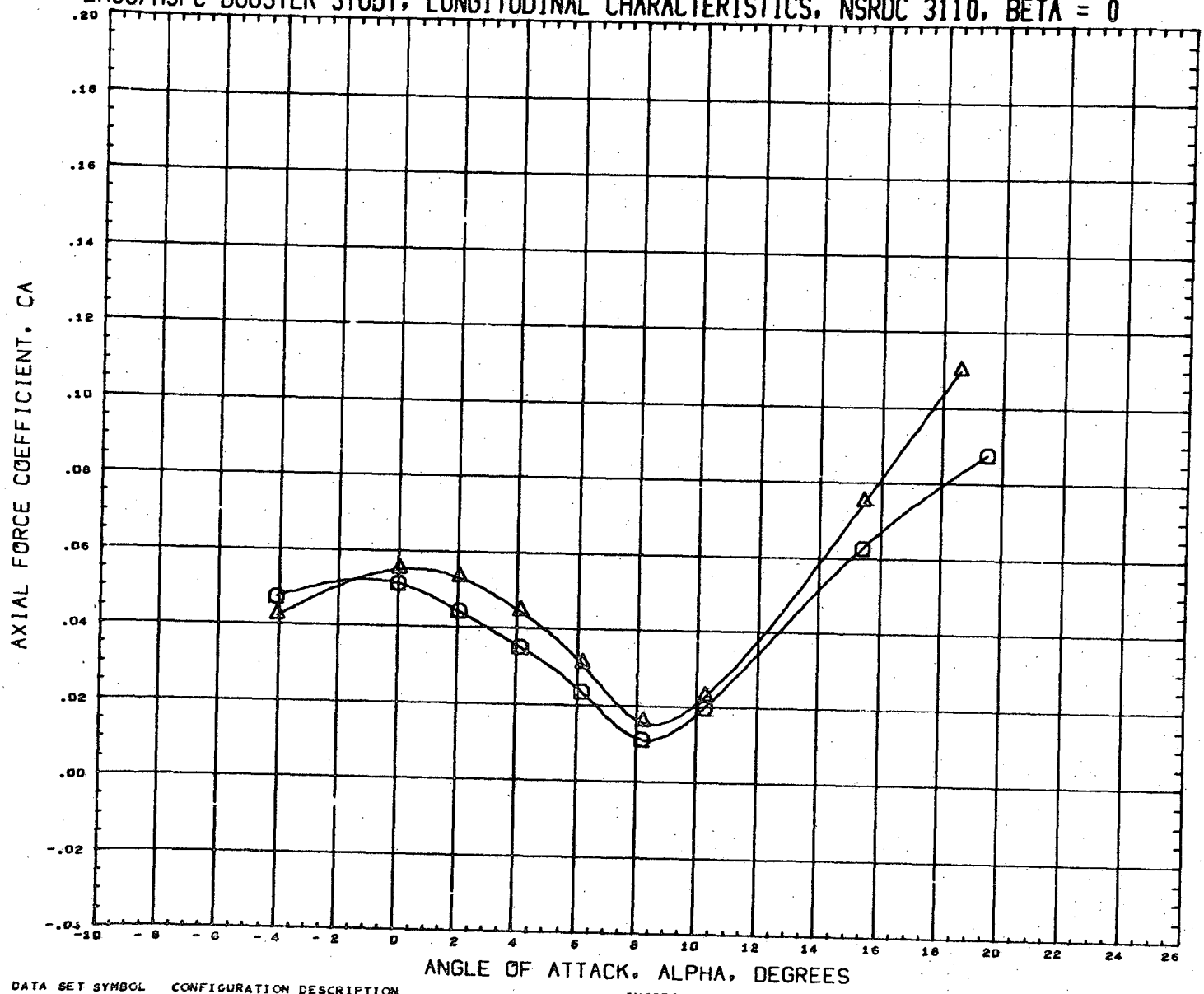


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2161)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000
(RN2177)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

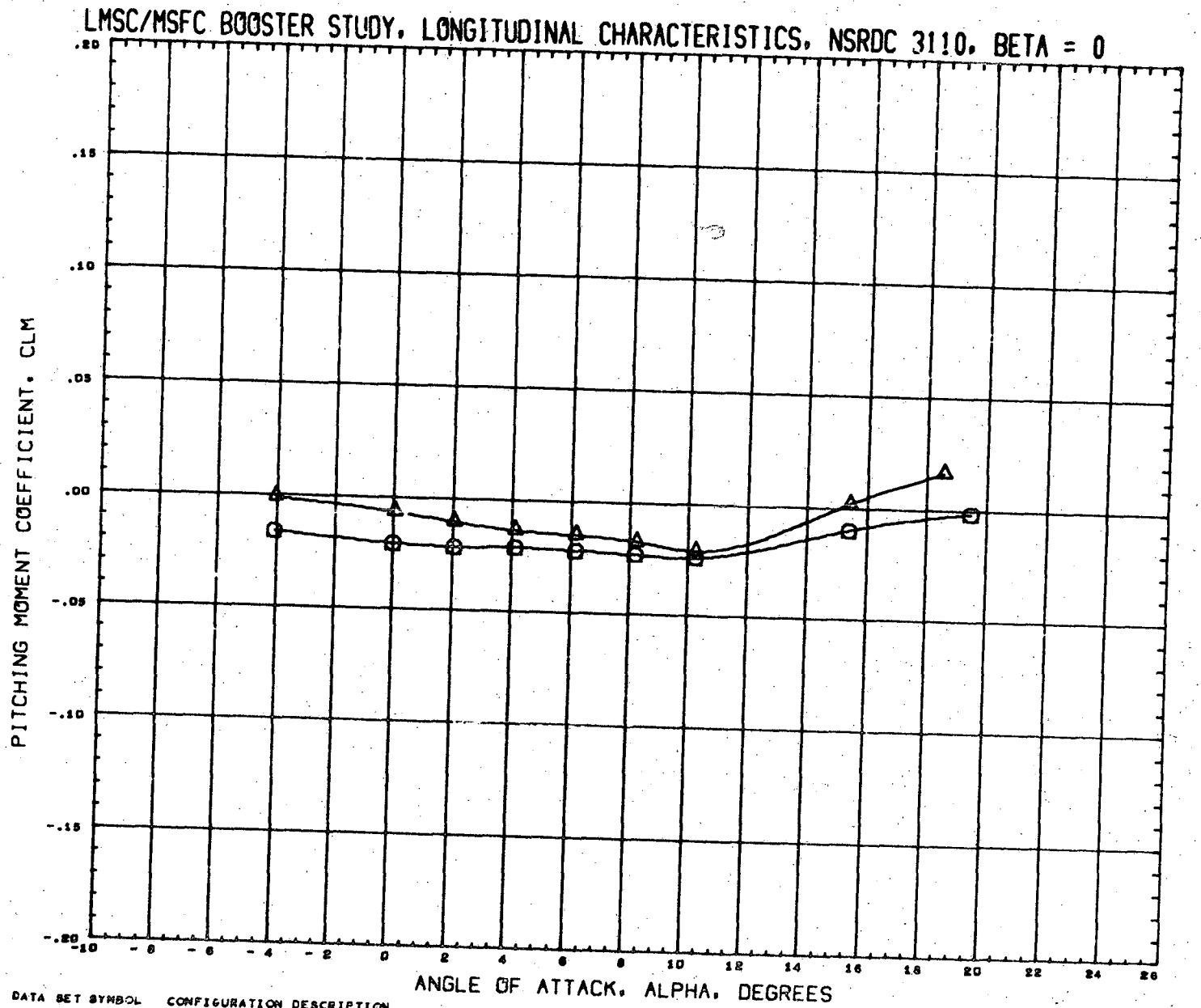
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2161)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000
(RN2177)	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

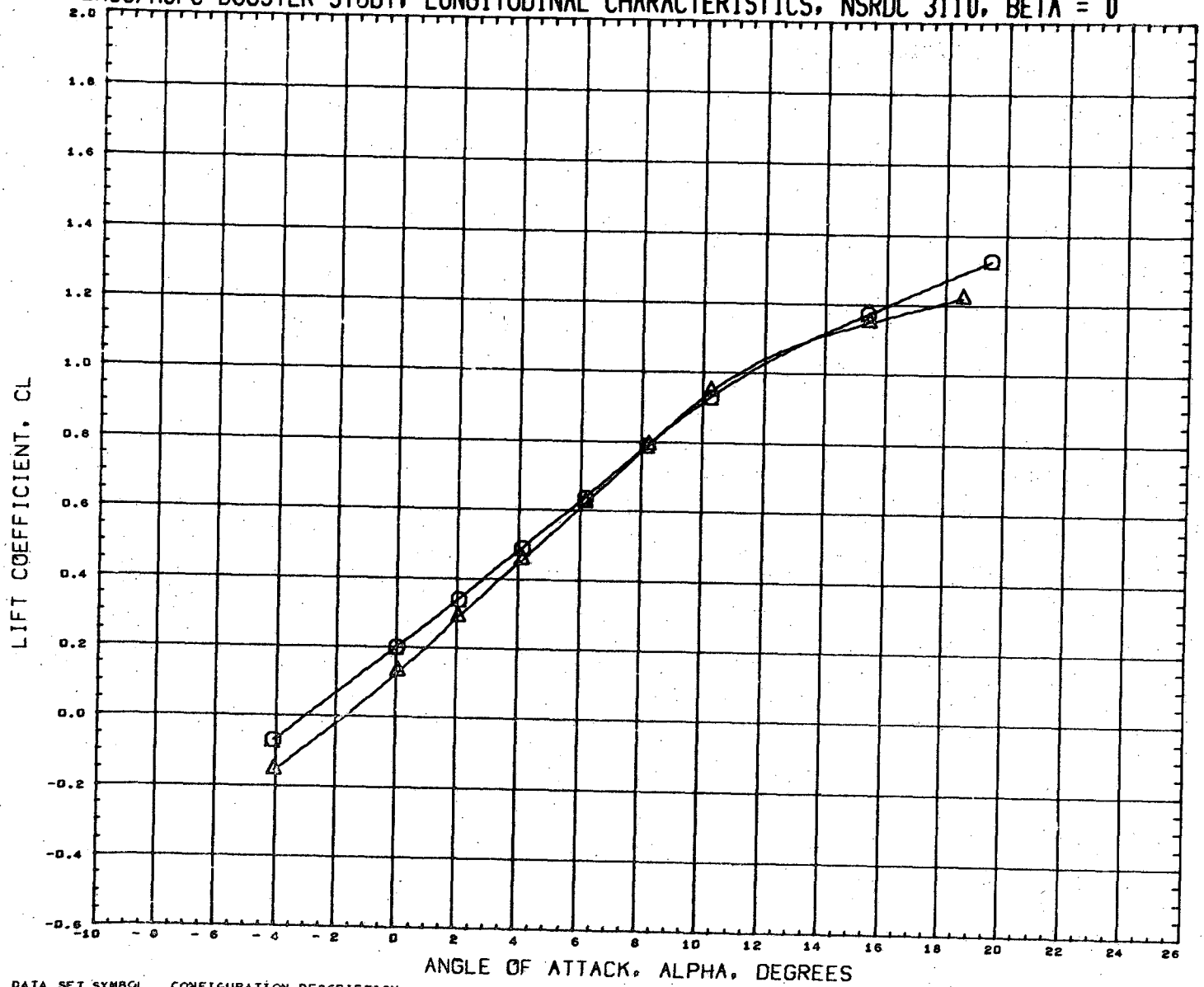


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2161)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000
(RN2177)	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1VED1	3.000	1.000	3.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



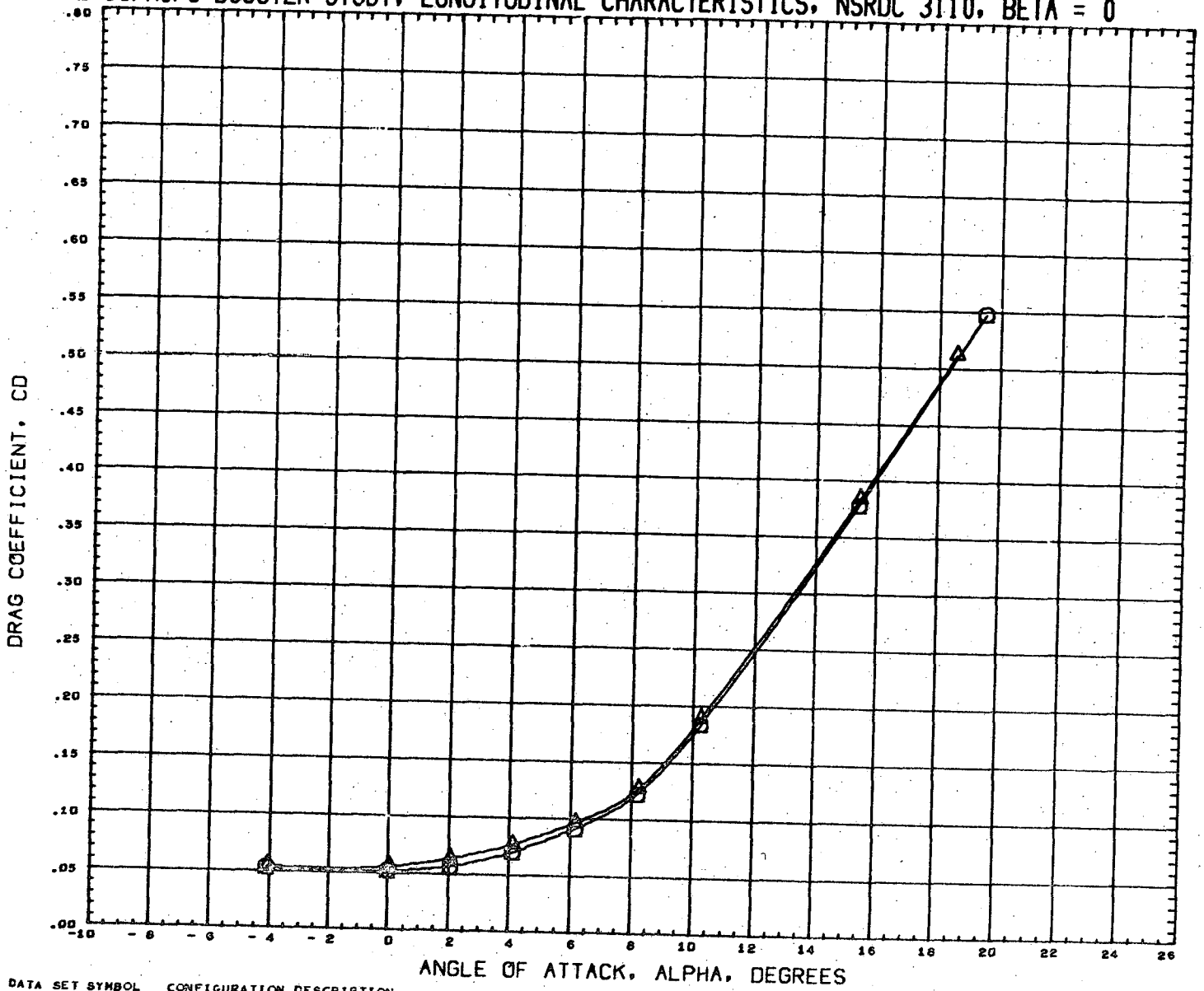
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2161)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1
(RN2177)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

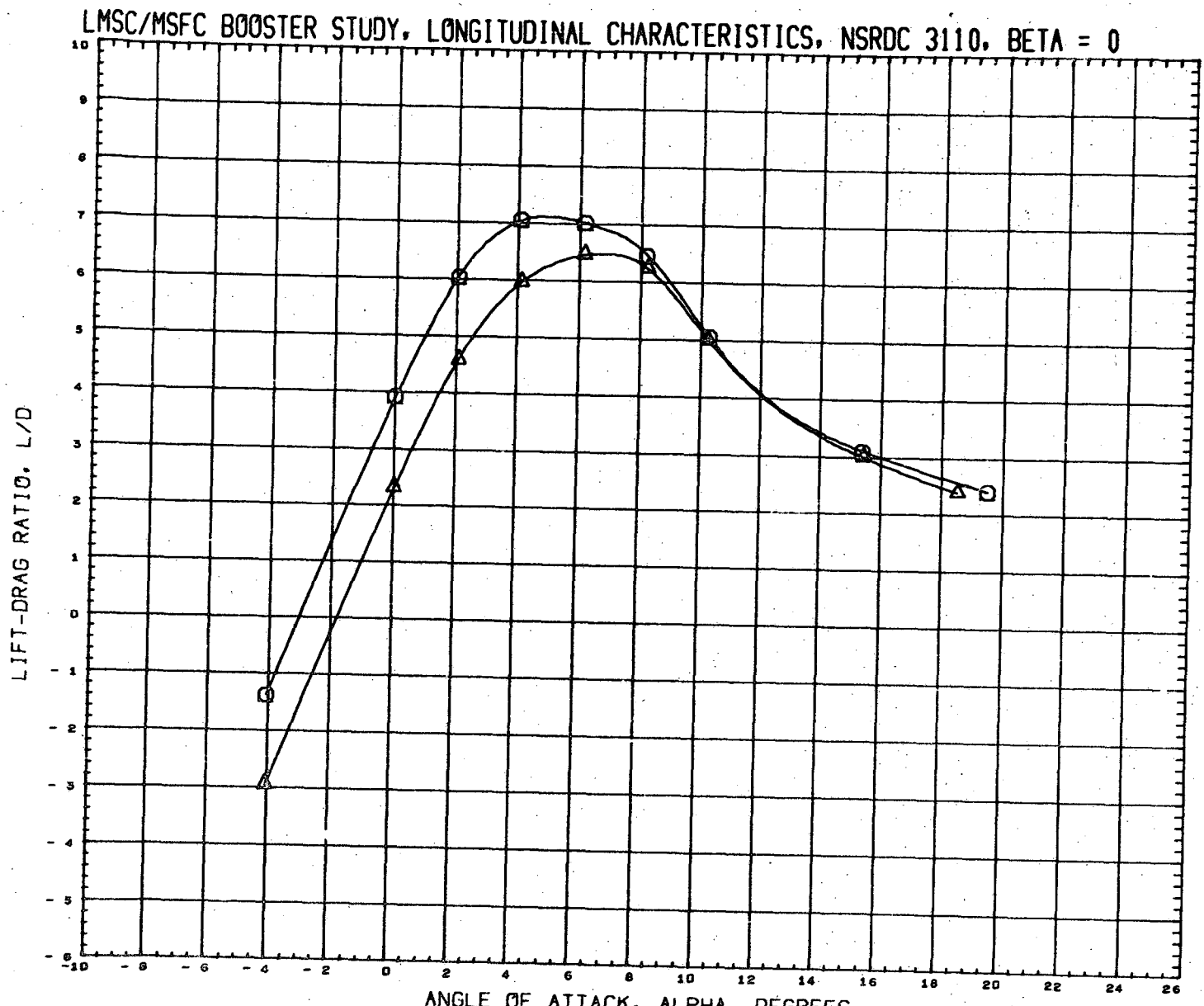


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2161)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1
(RN2177)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

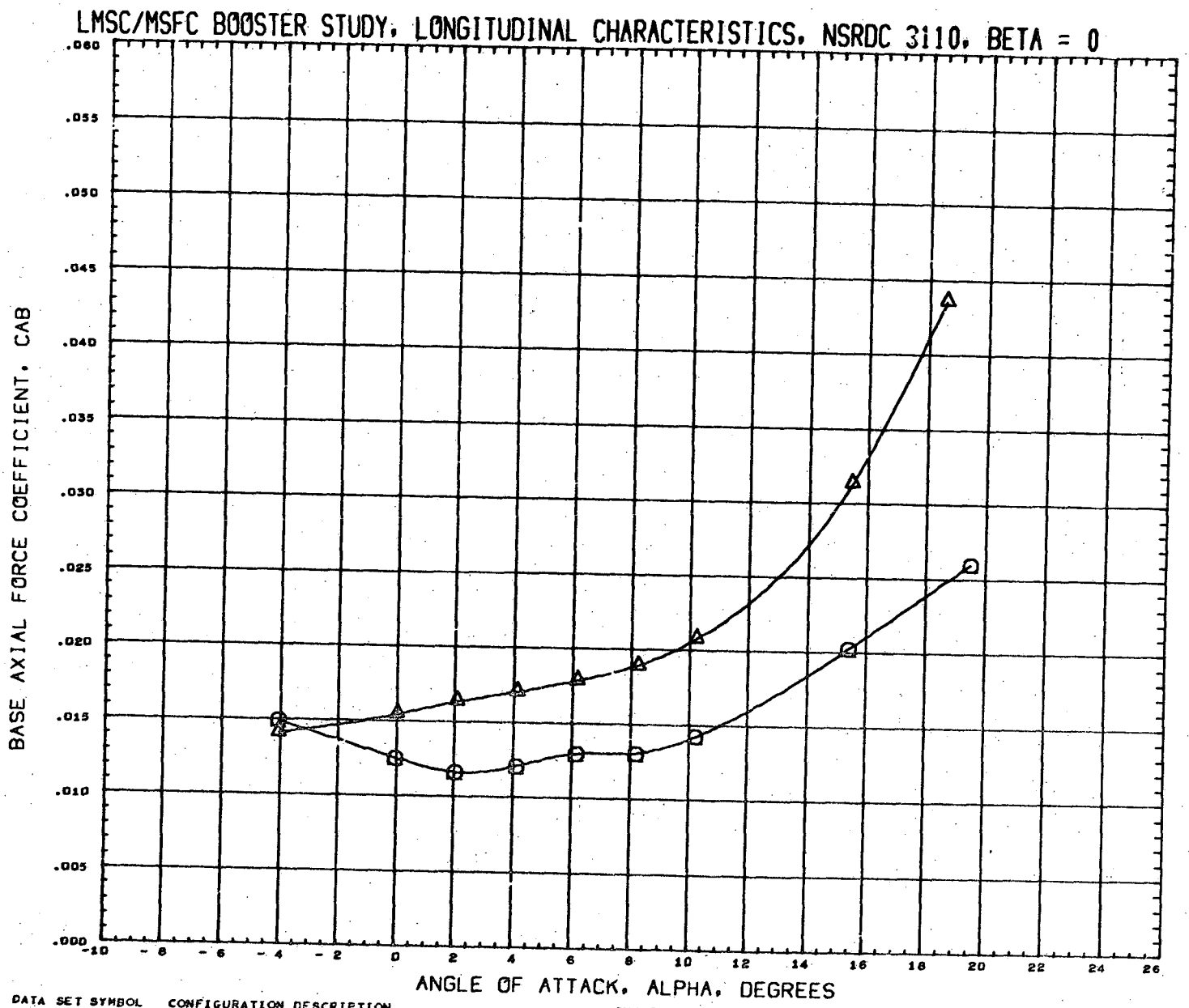
MACH 0.380



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2161)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000
(RN2177)	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

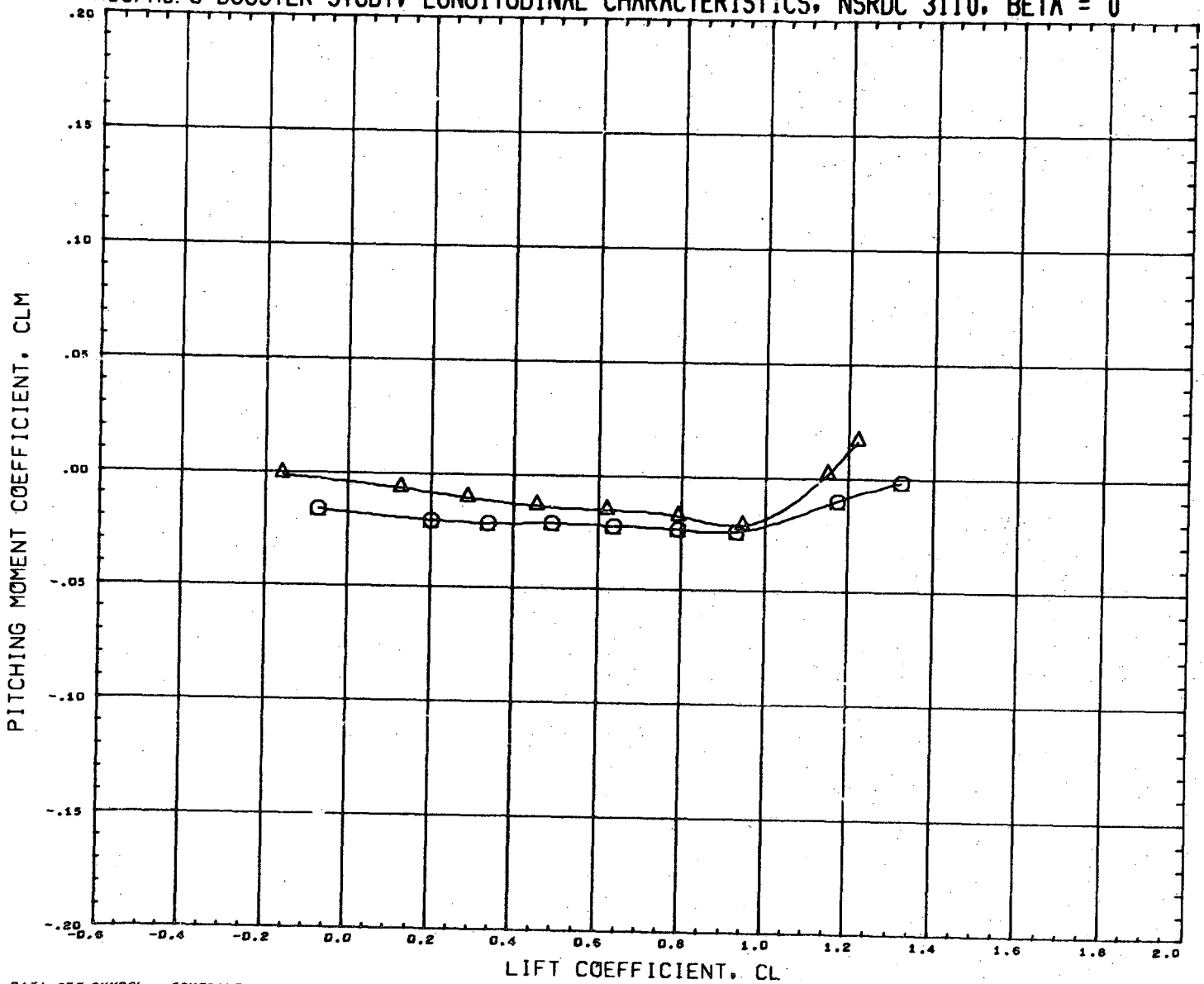


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2161)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000
(RN2177)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.436D	INCHES
BREF	41.436D	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



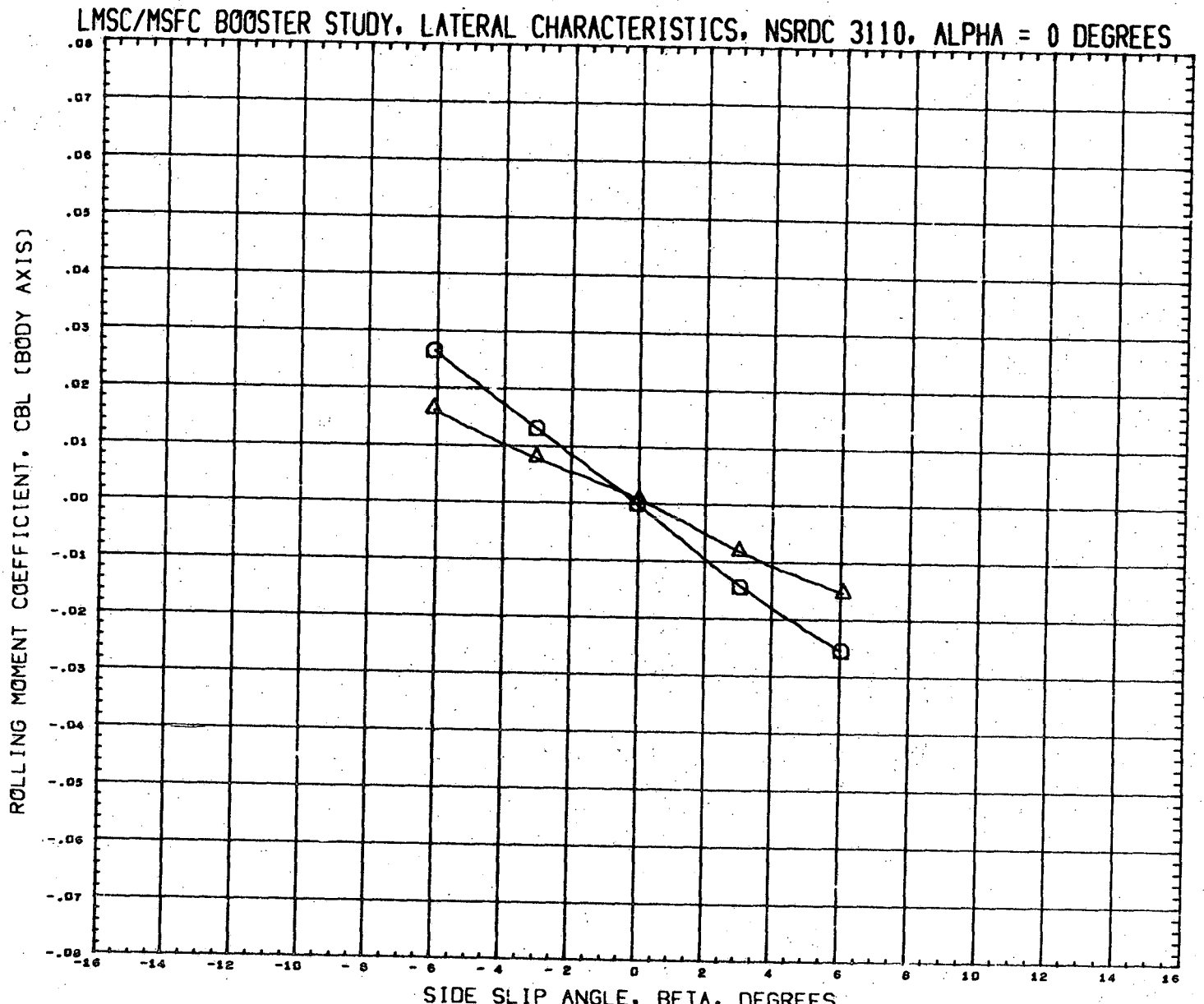
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2161)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1
(RN2177)	△	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.360

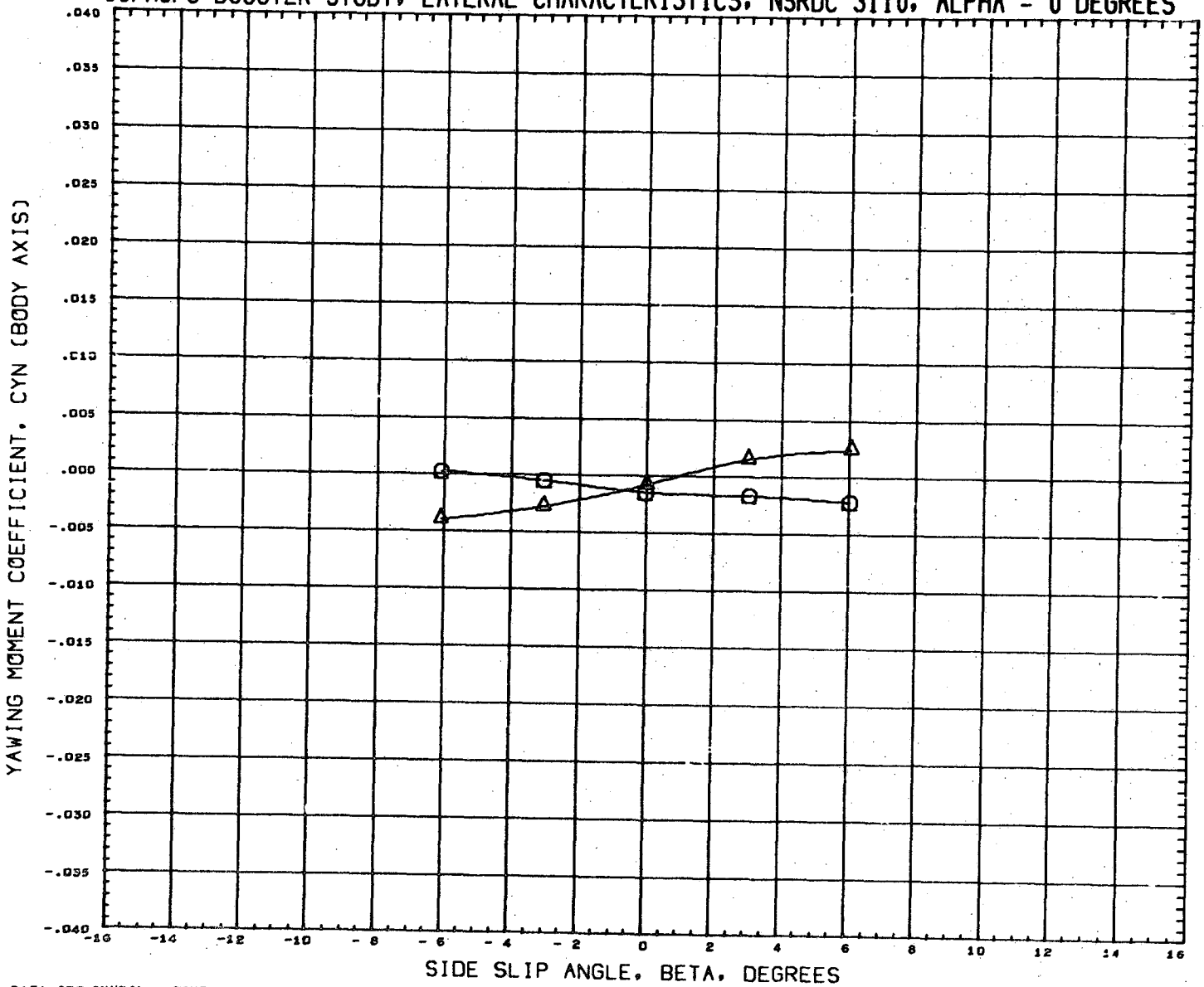


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2162)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000
(RN2178)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

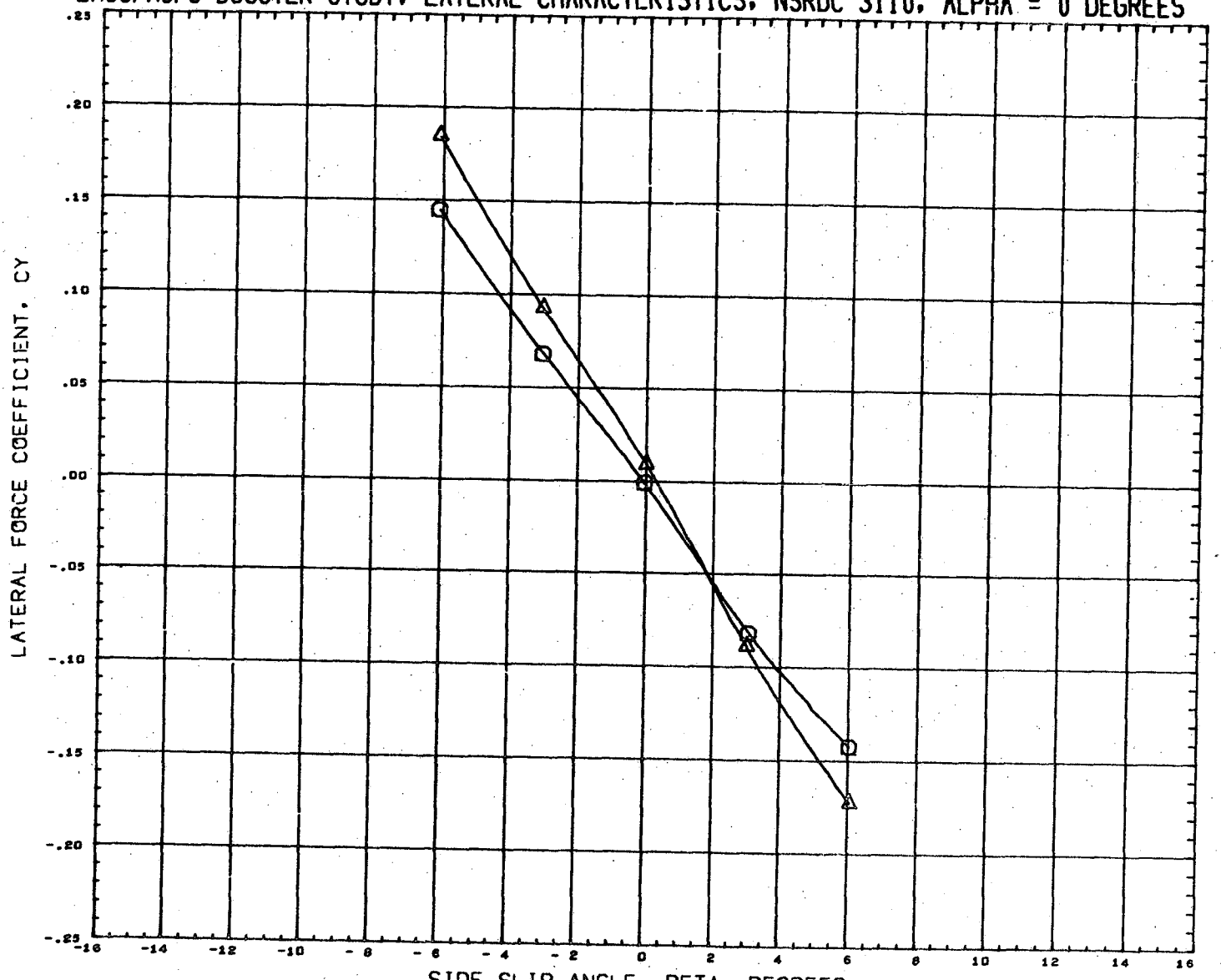


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2162) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000
(RN2178) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

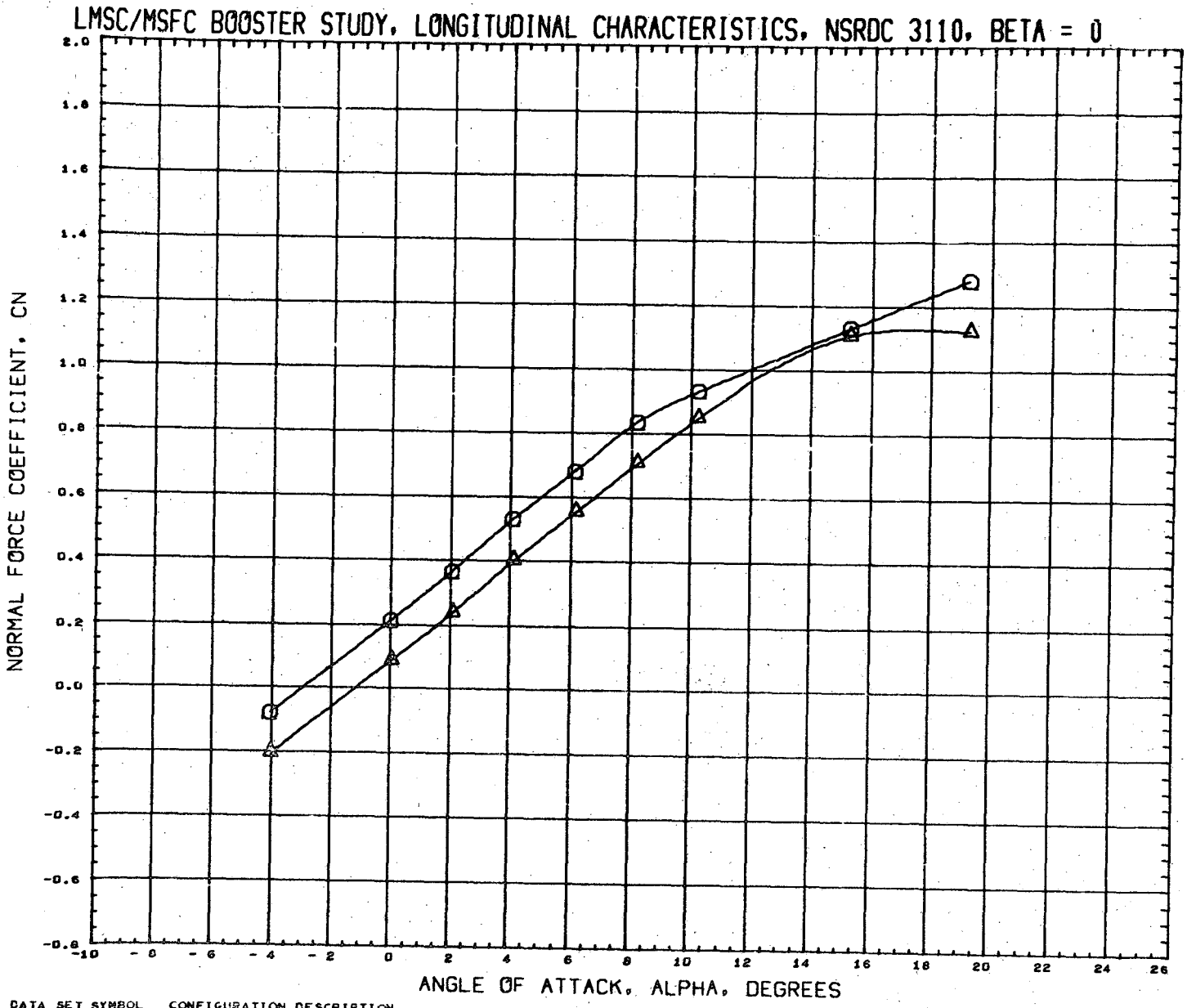
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2162)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000
(RN2178)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000

MACH 0.582

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

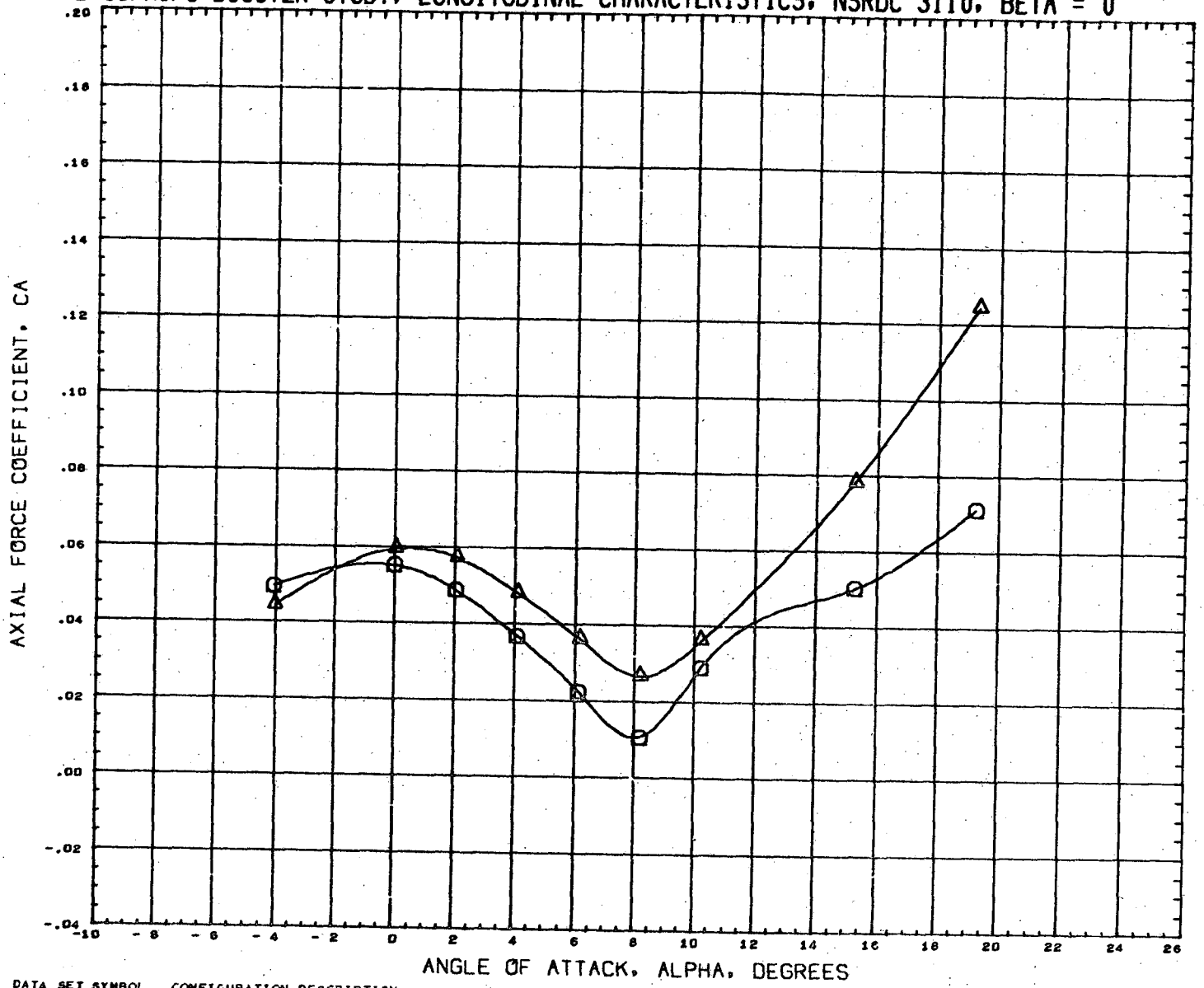


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2169)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000
(RN2185)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

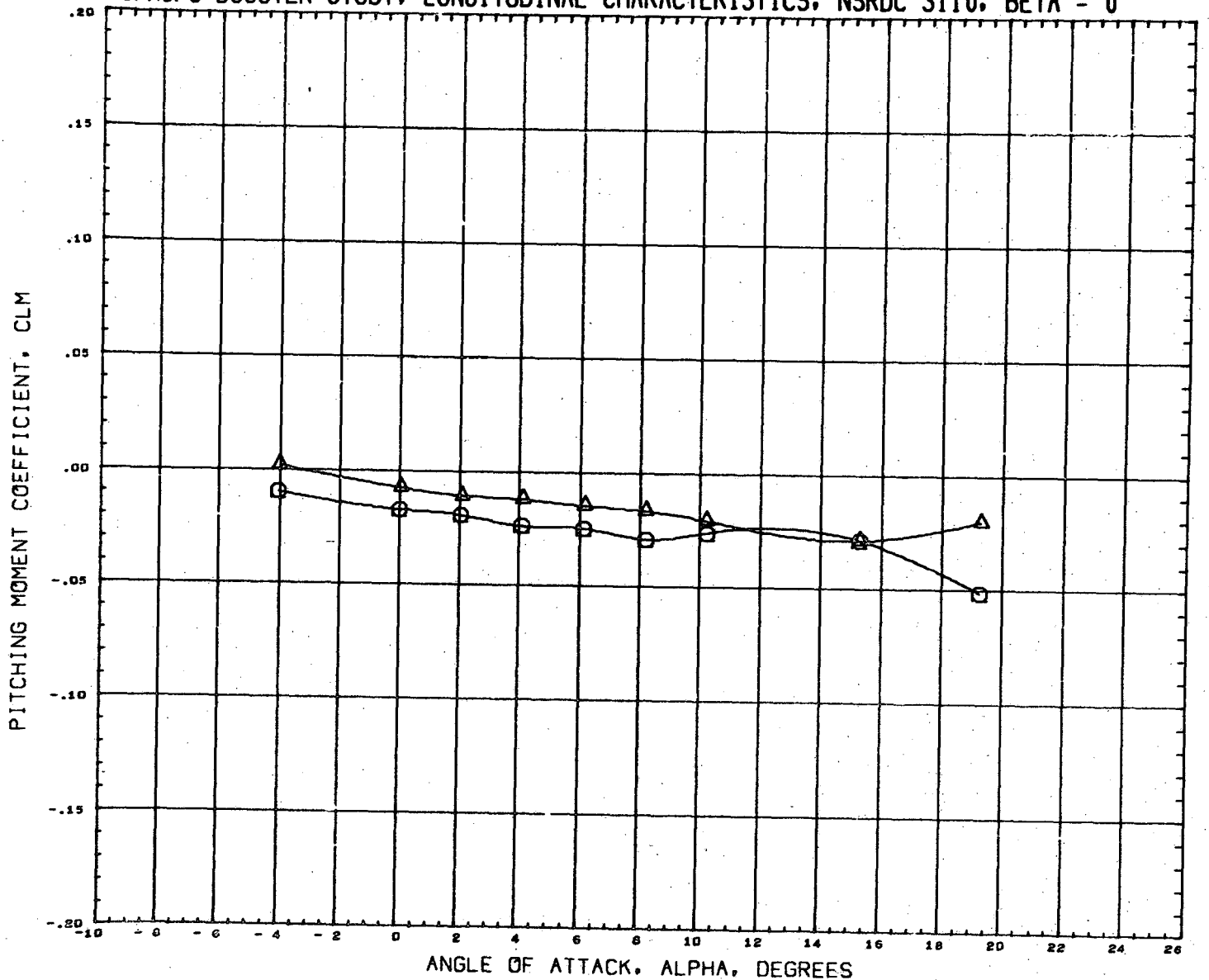


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2169)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000
(RN2185)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.303

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

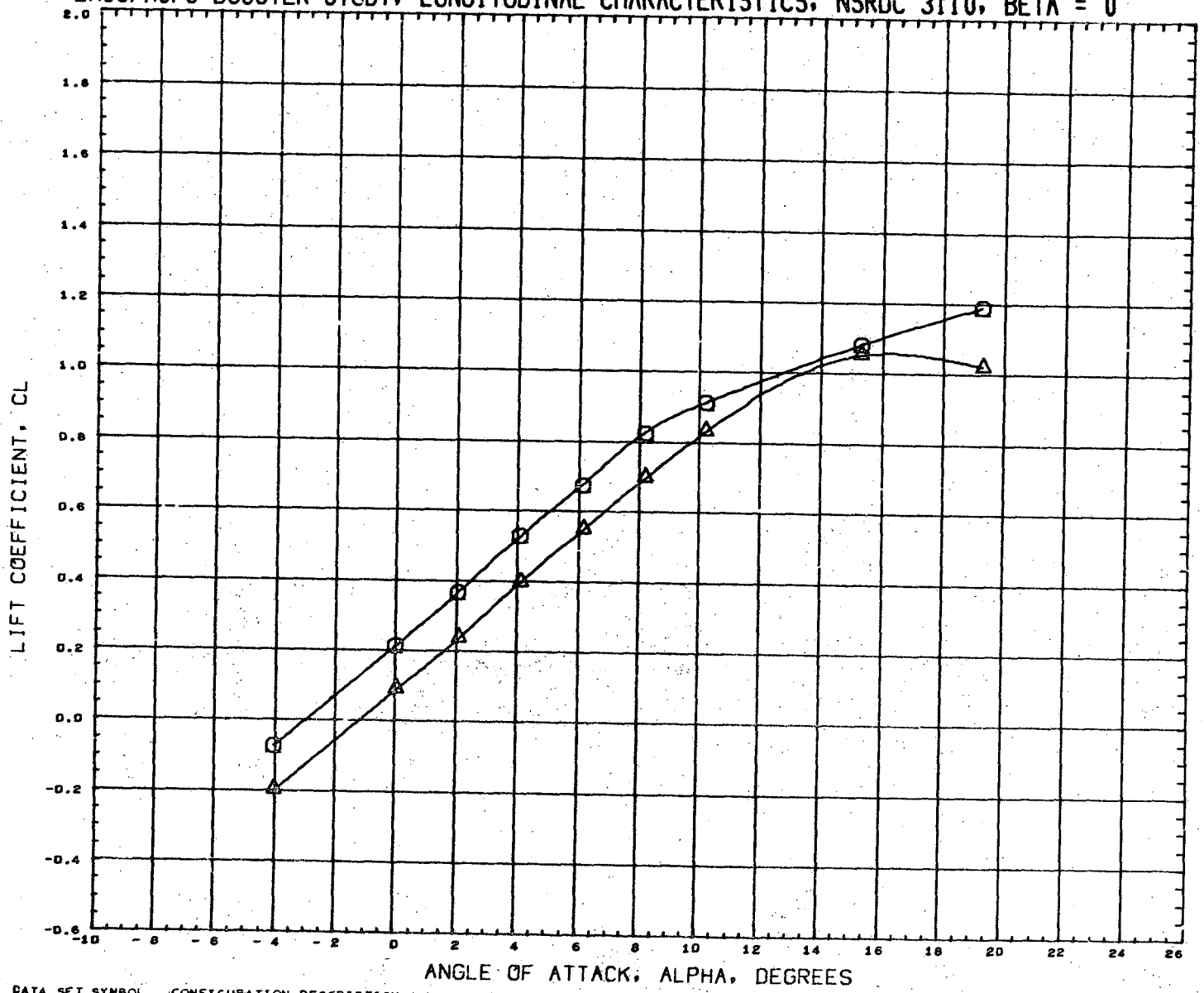


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2169)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000
(RN2185)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

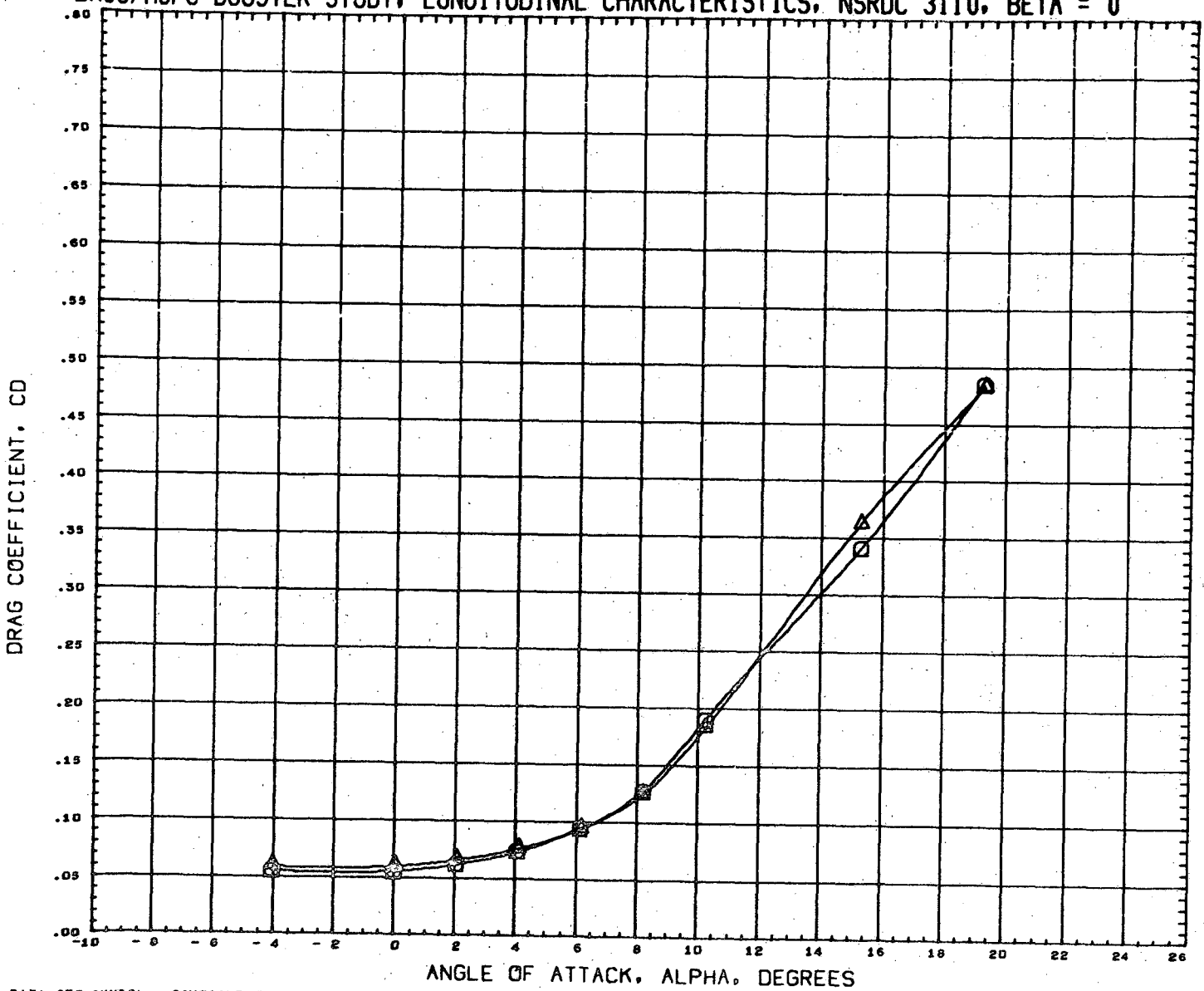


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2169)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000
(RN2165)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

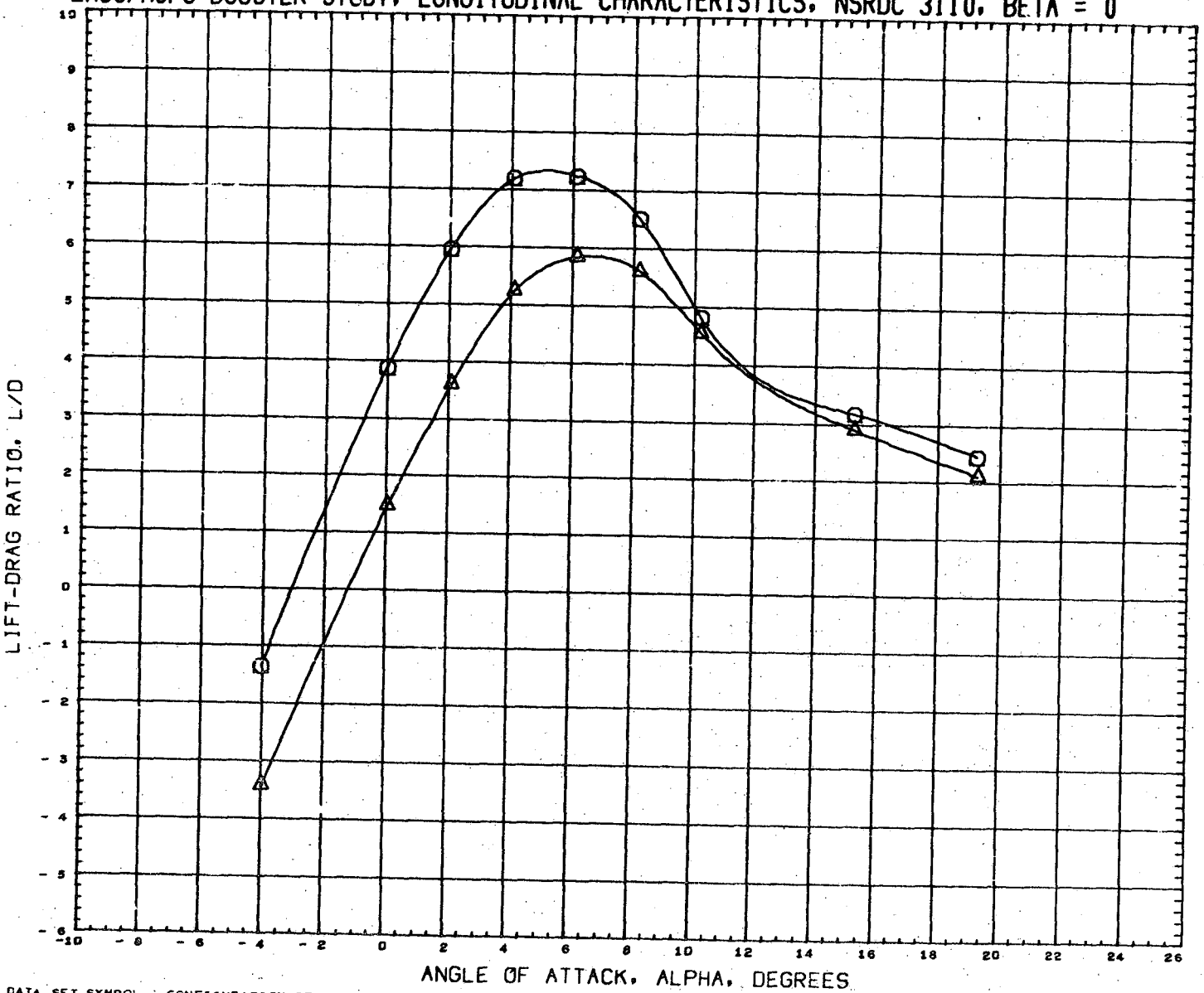


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS
(RN2169) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000
(RN2165) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

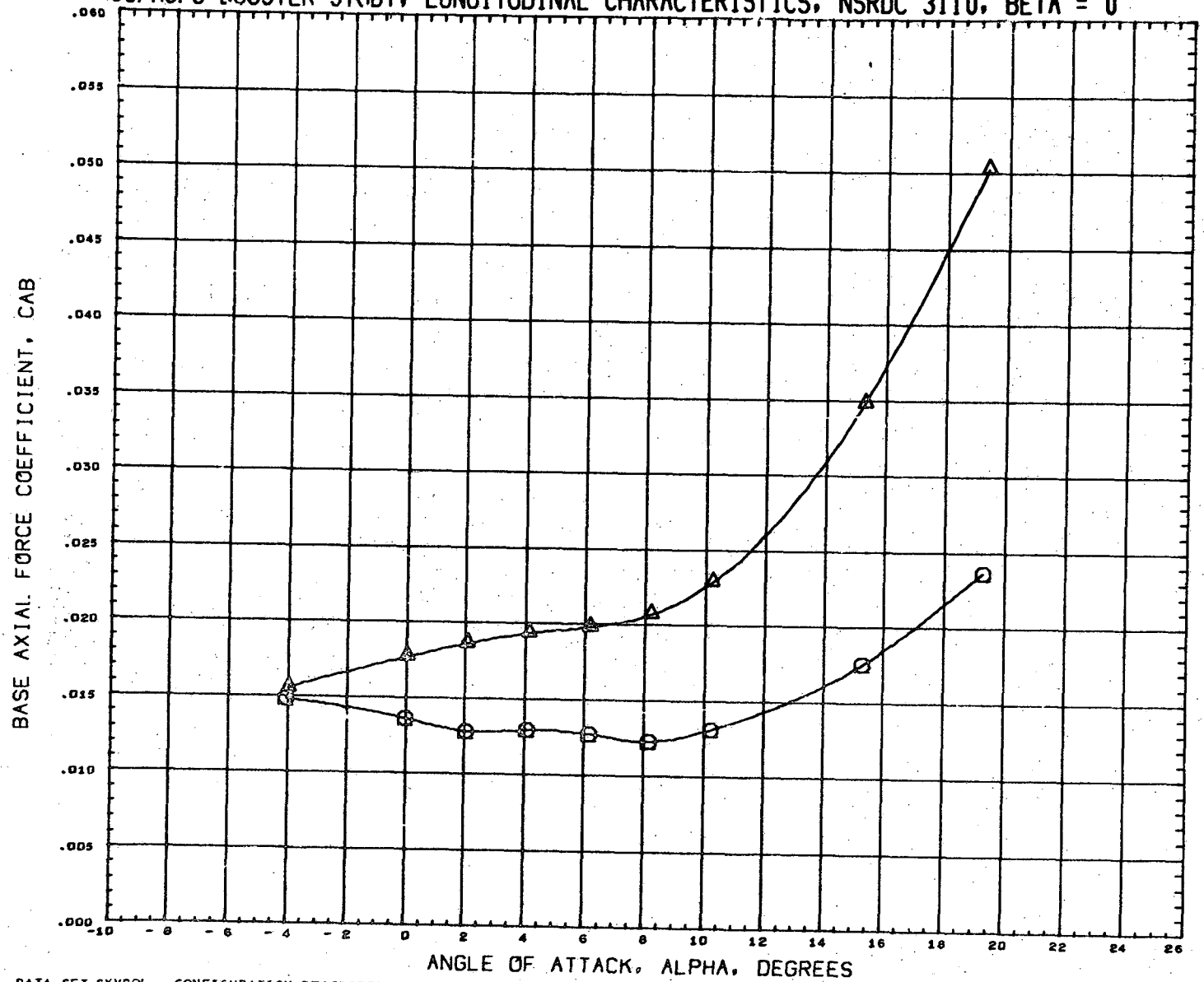


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2169)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000
(RN2165)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

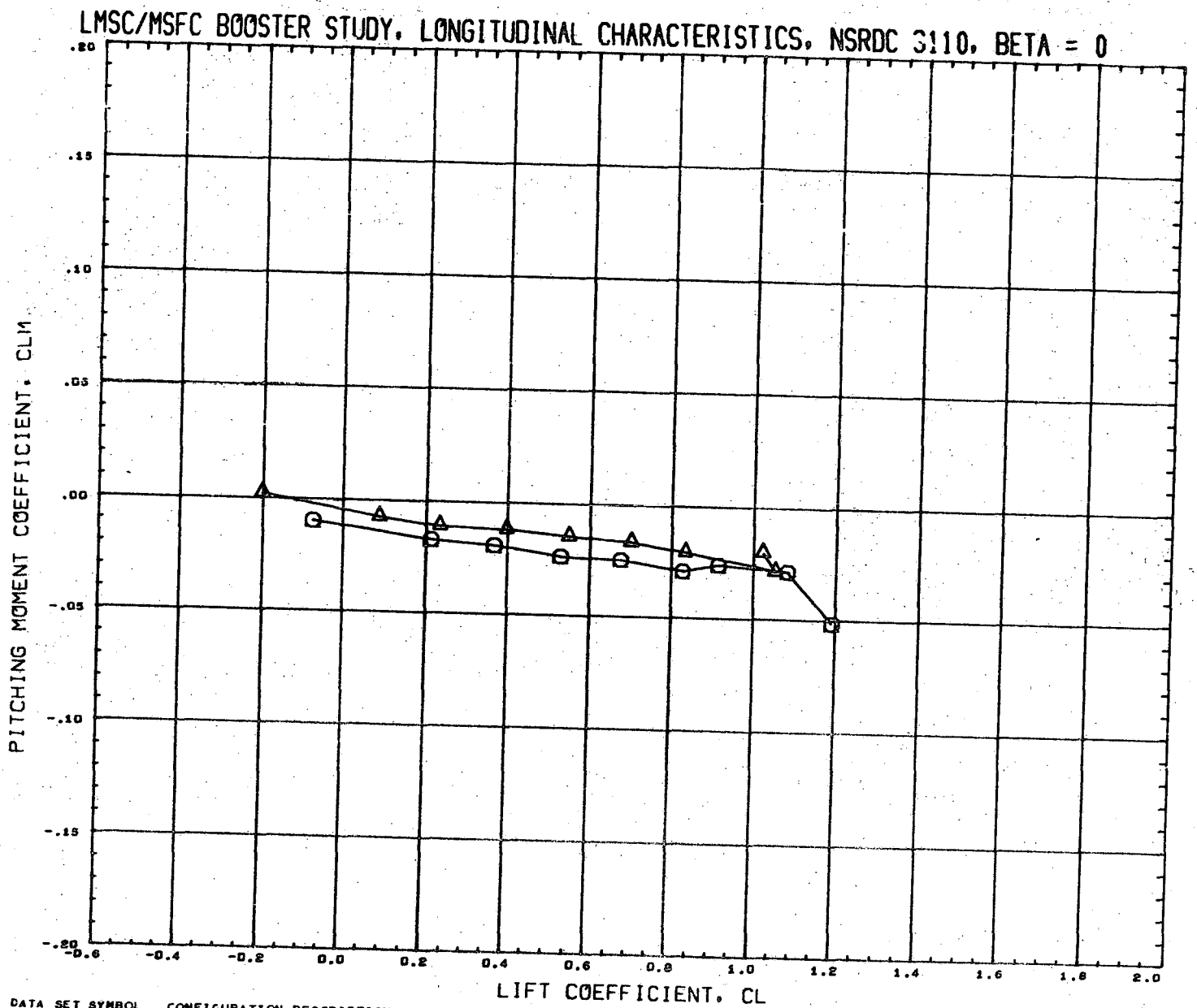
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2169)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000
(RN2165)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

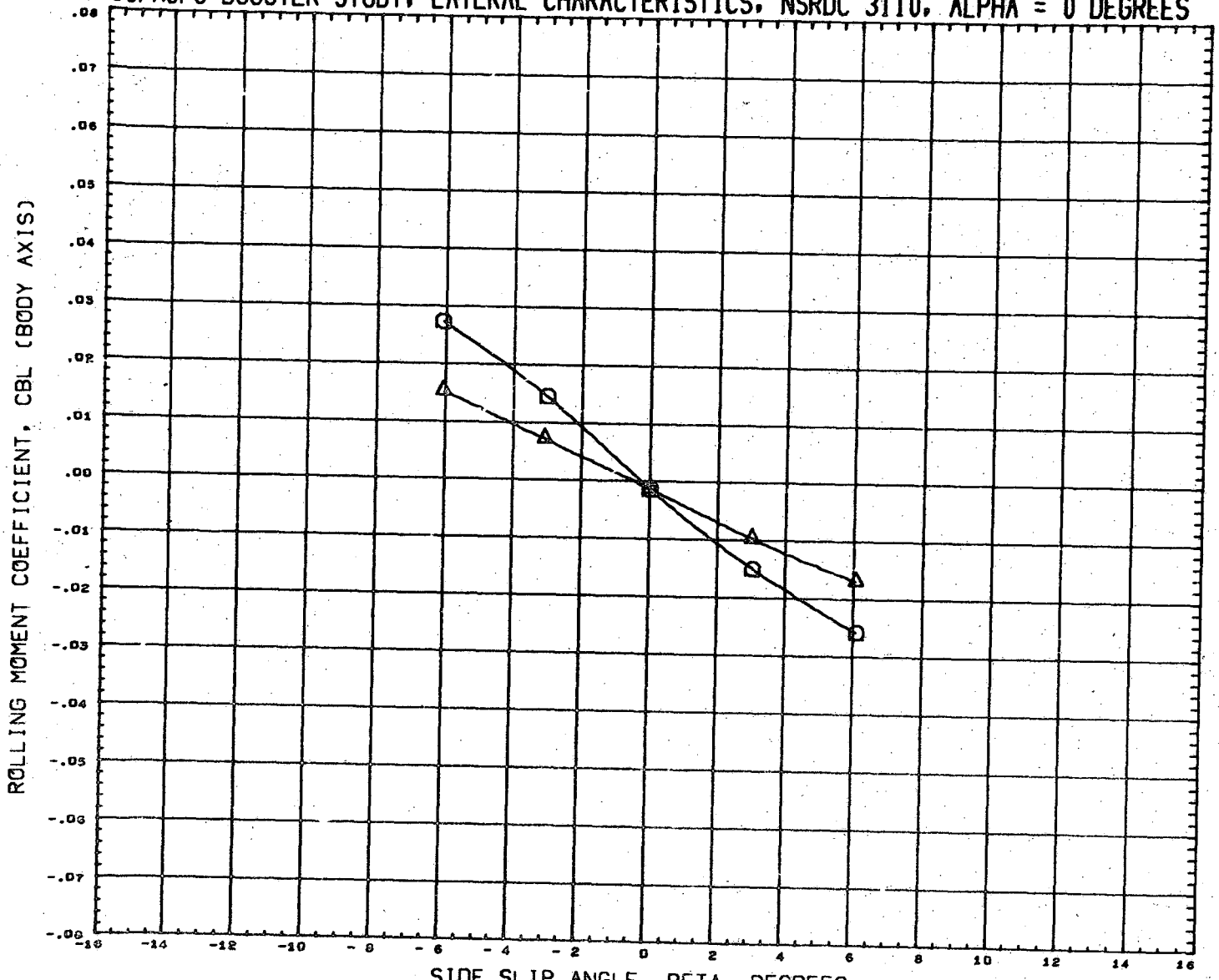


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2169)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000
(RN2185)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.383

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

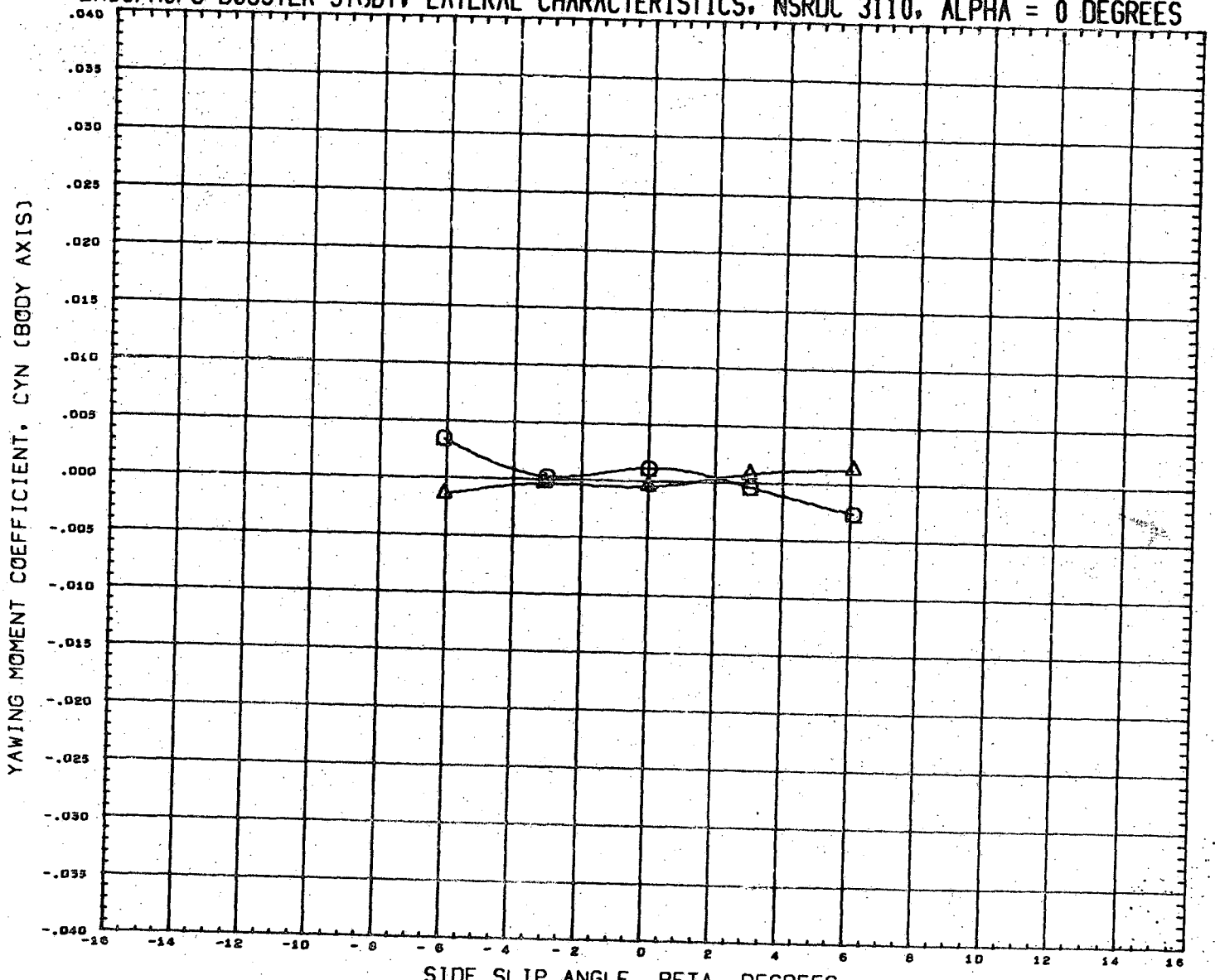


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2170)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000
(RN2186)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

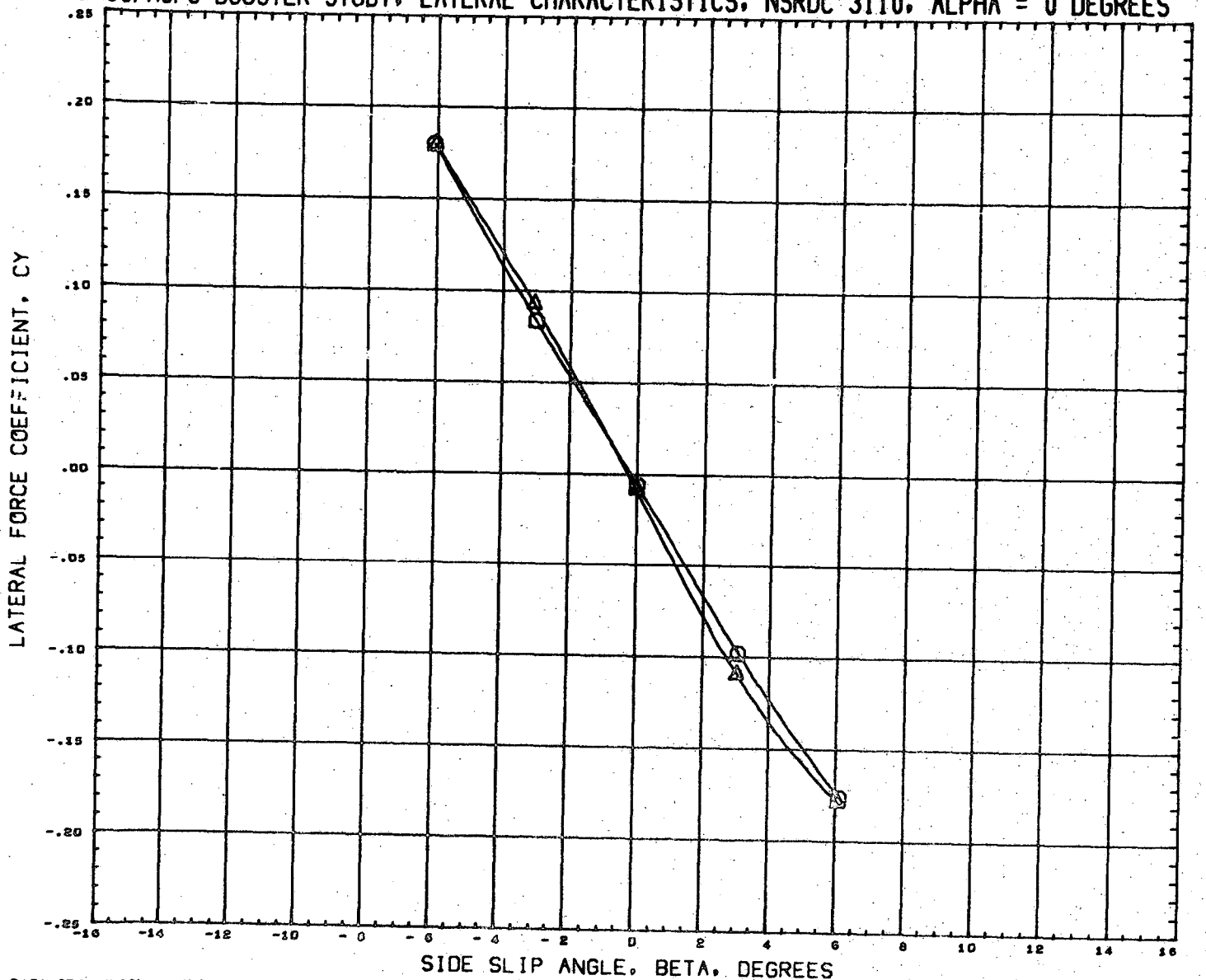


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2170)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000
(RN2186)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

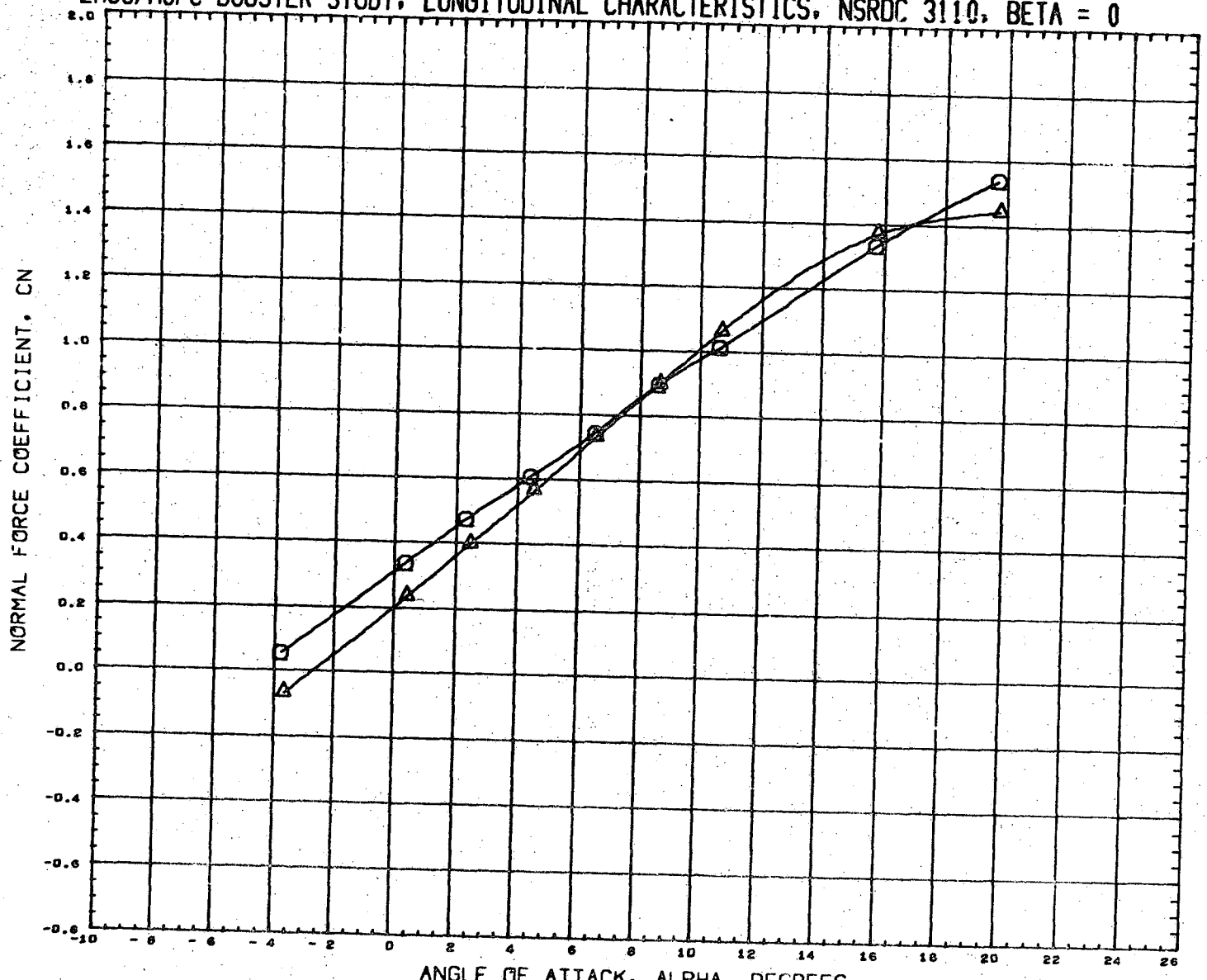


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2170)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000
(RN2186)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000

MACH 0.300

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2101)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2117)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

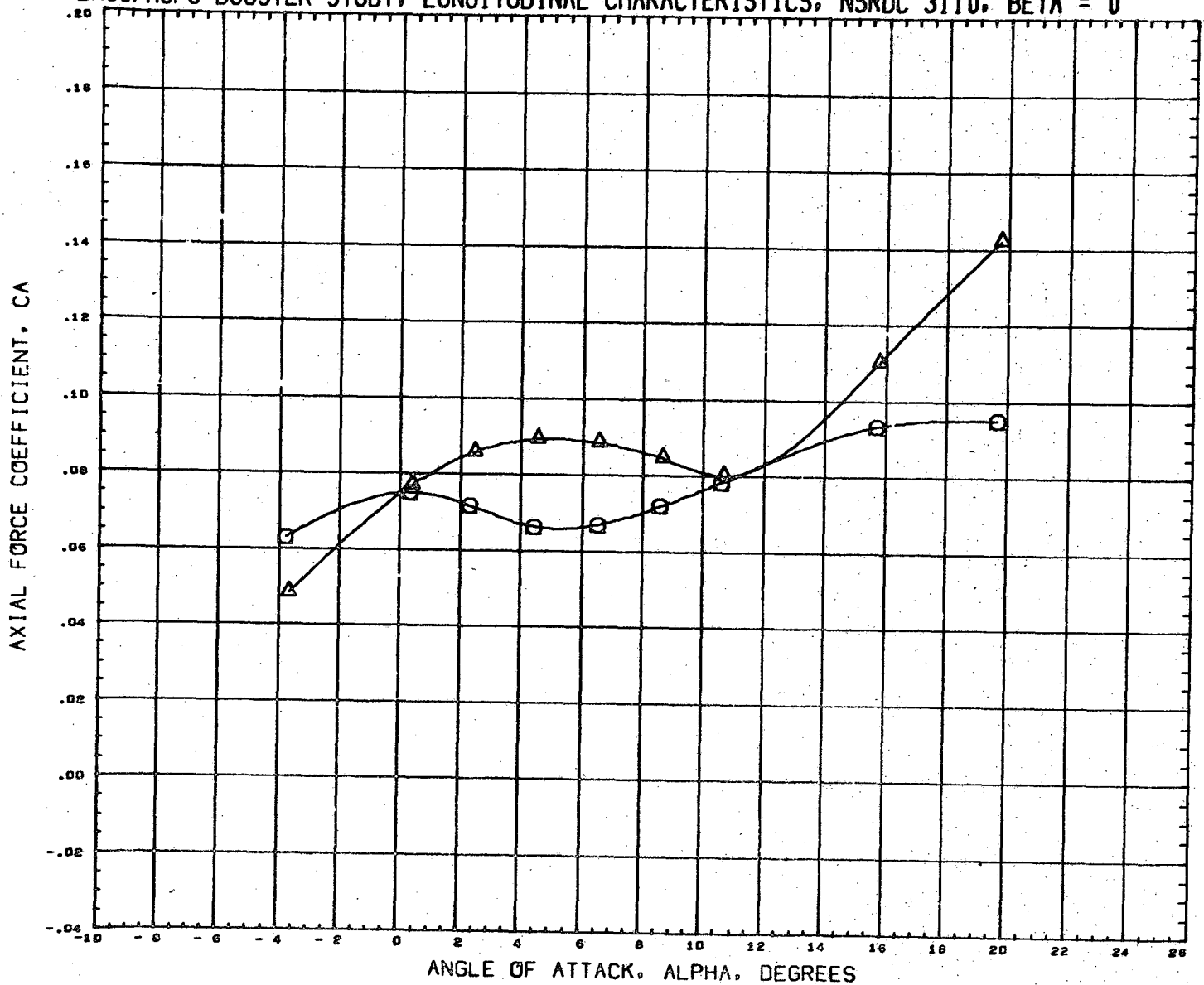
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



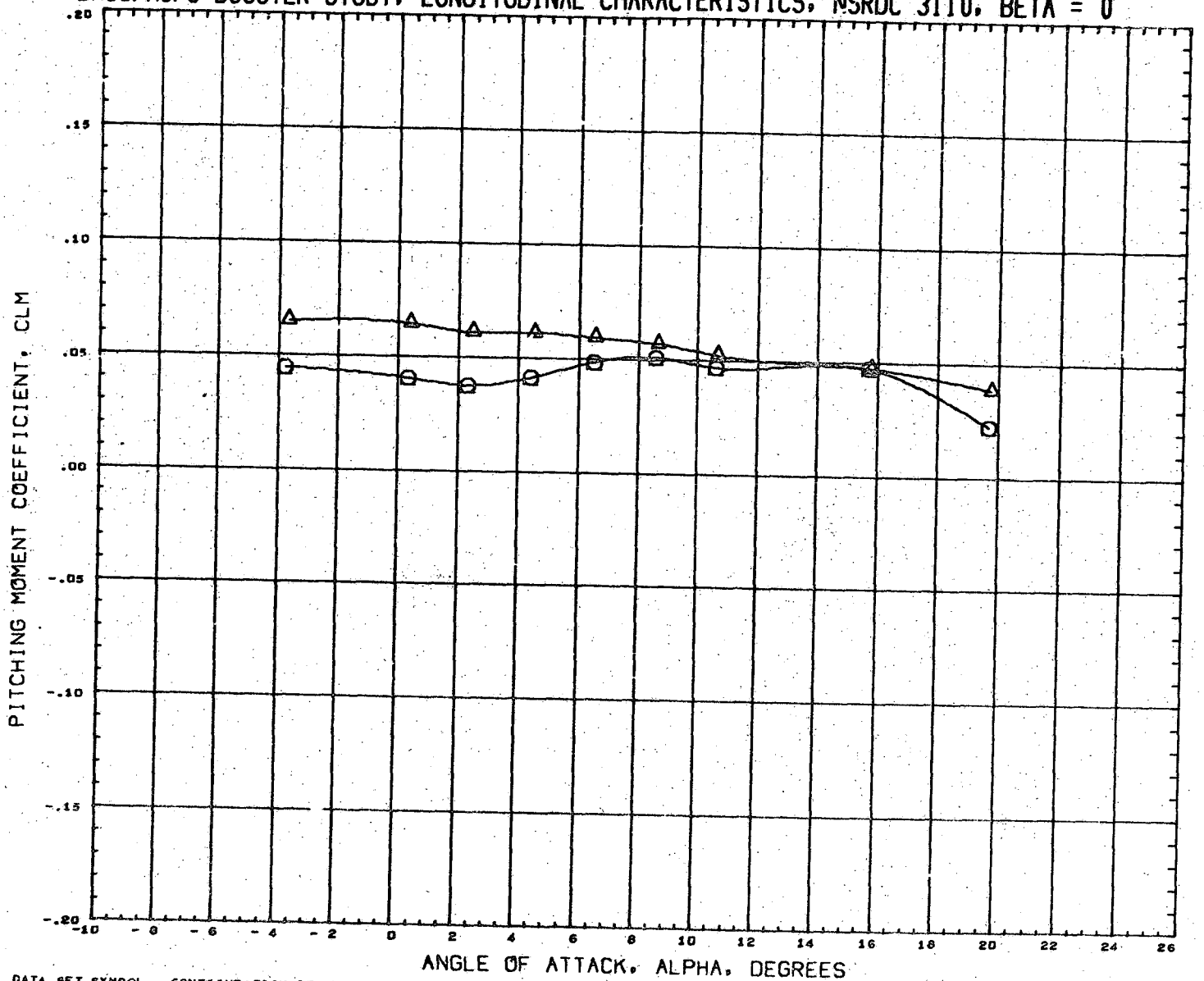
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2101)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2117)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000

MACH 0.301

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

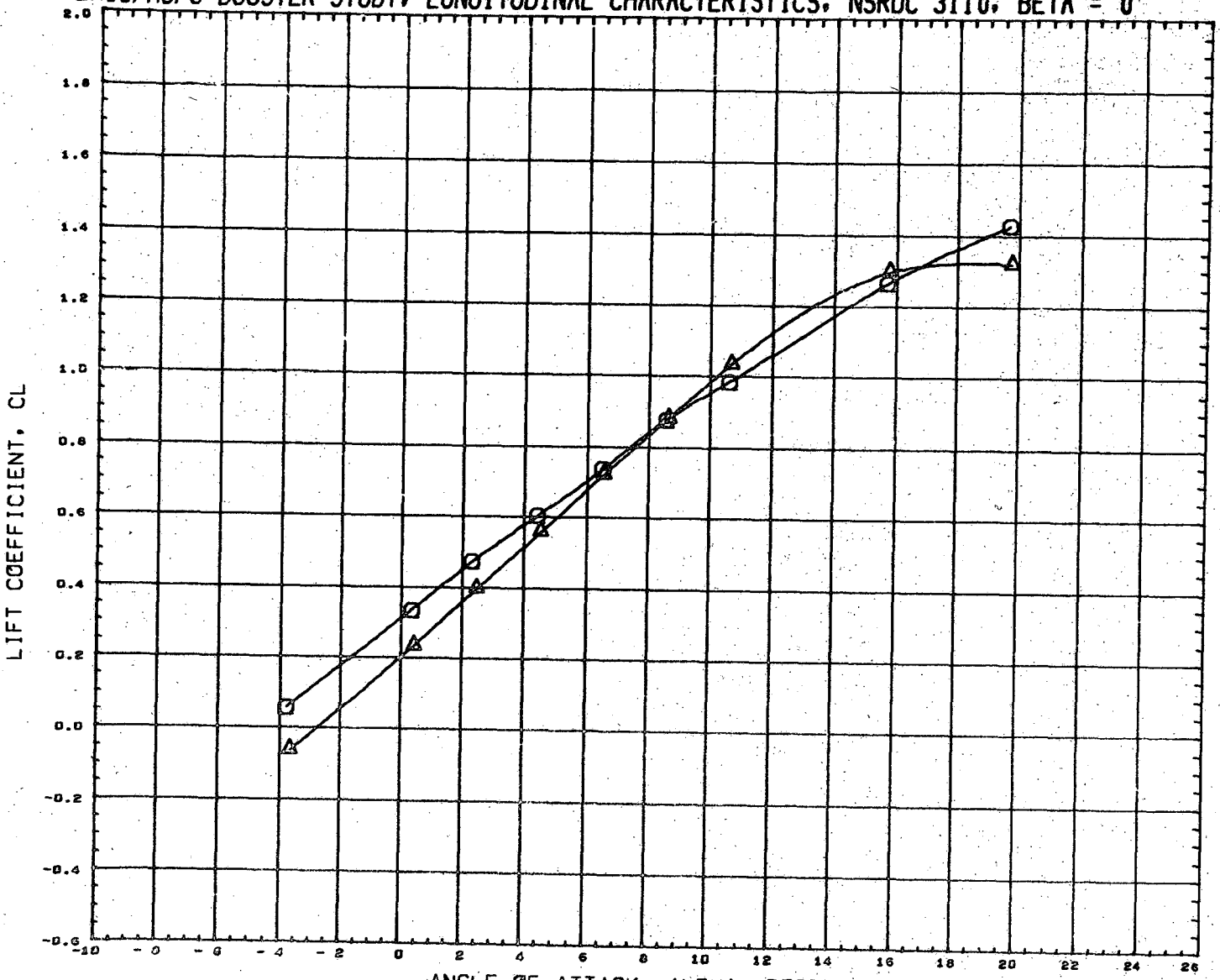


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2101)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2117)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

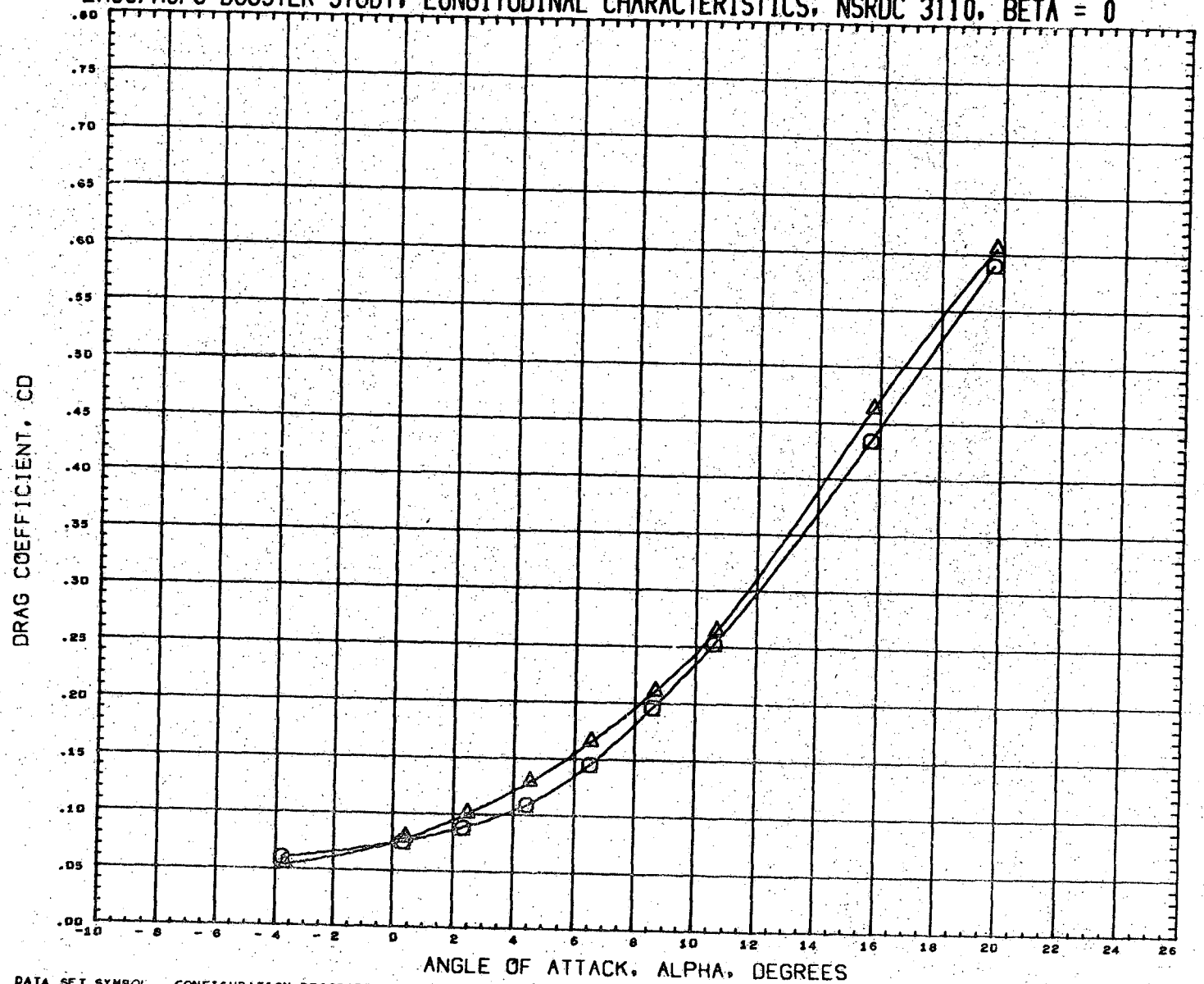


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2101)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2117)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

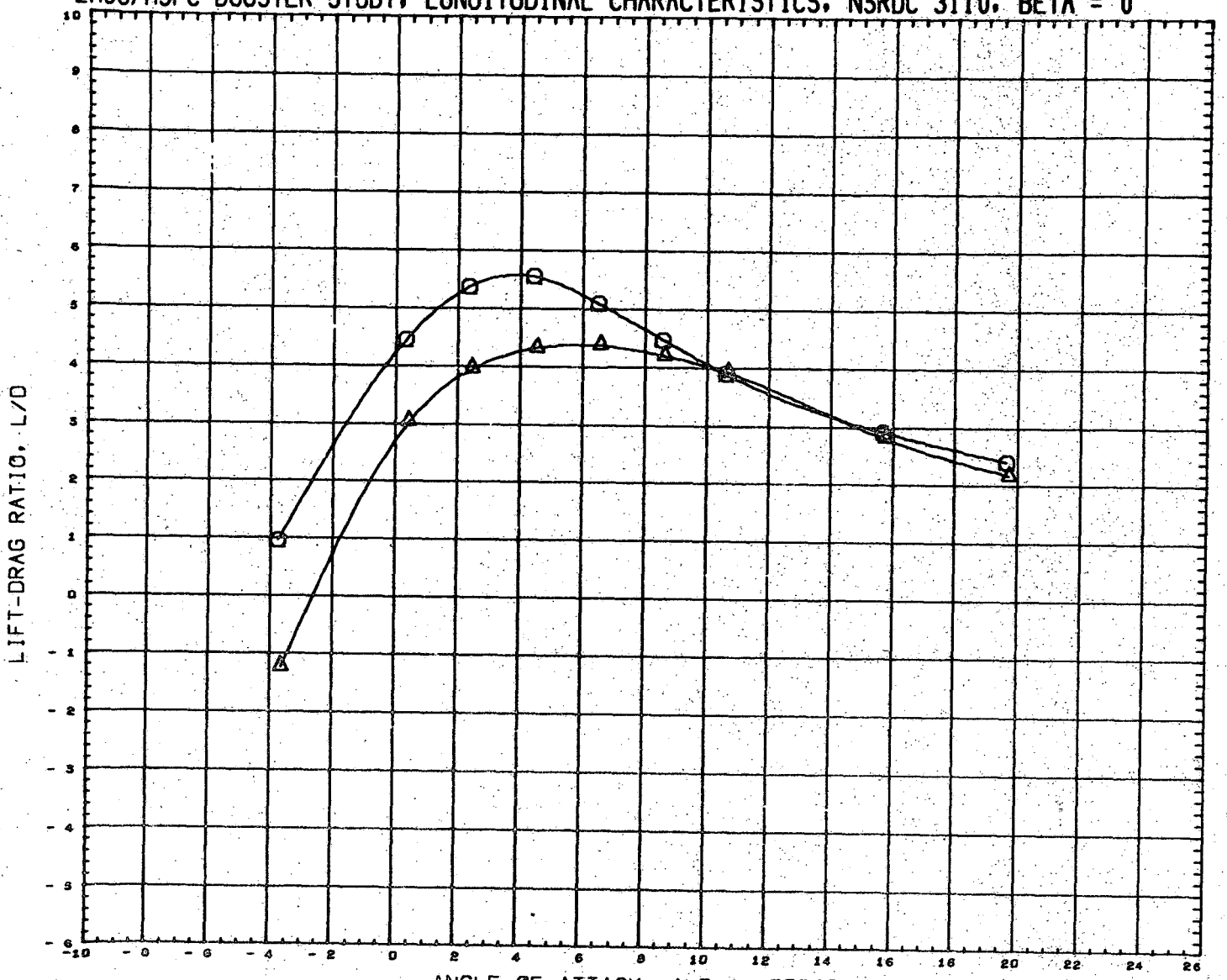


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2101)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2117)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

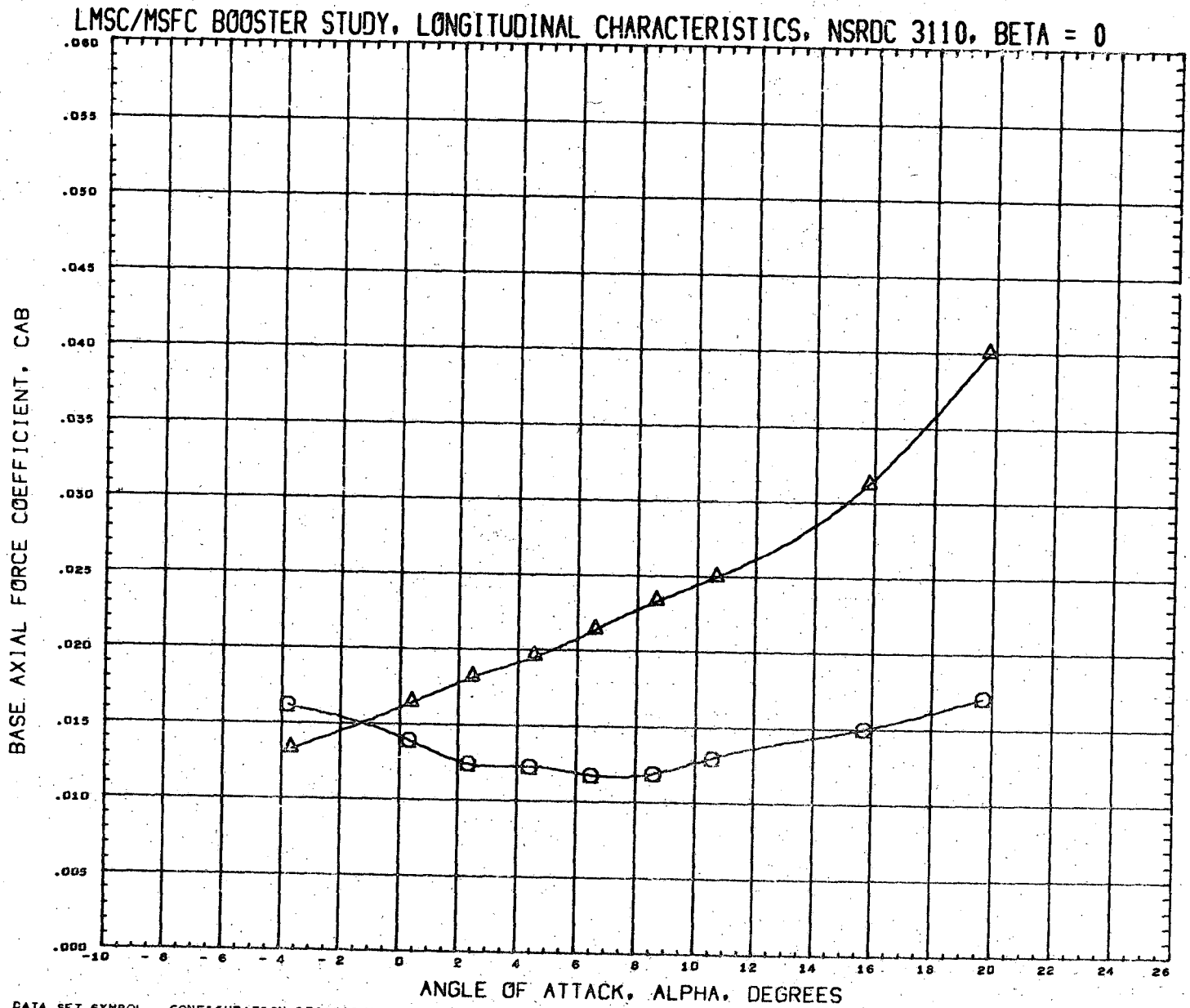
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2101)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2117)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000

MACH 0.381

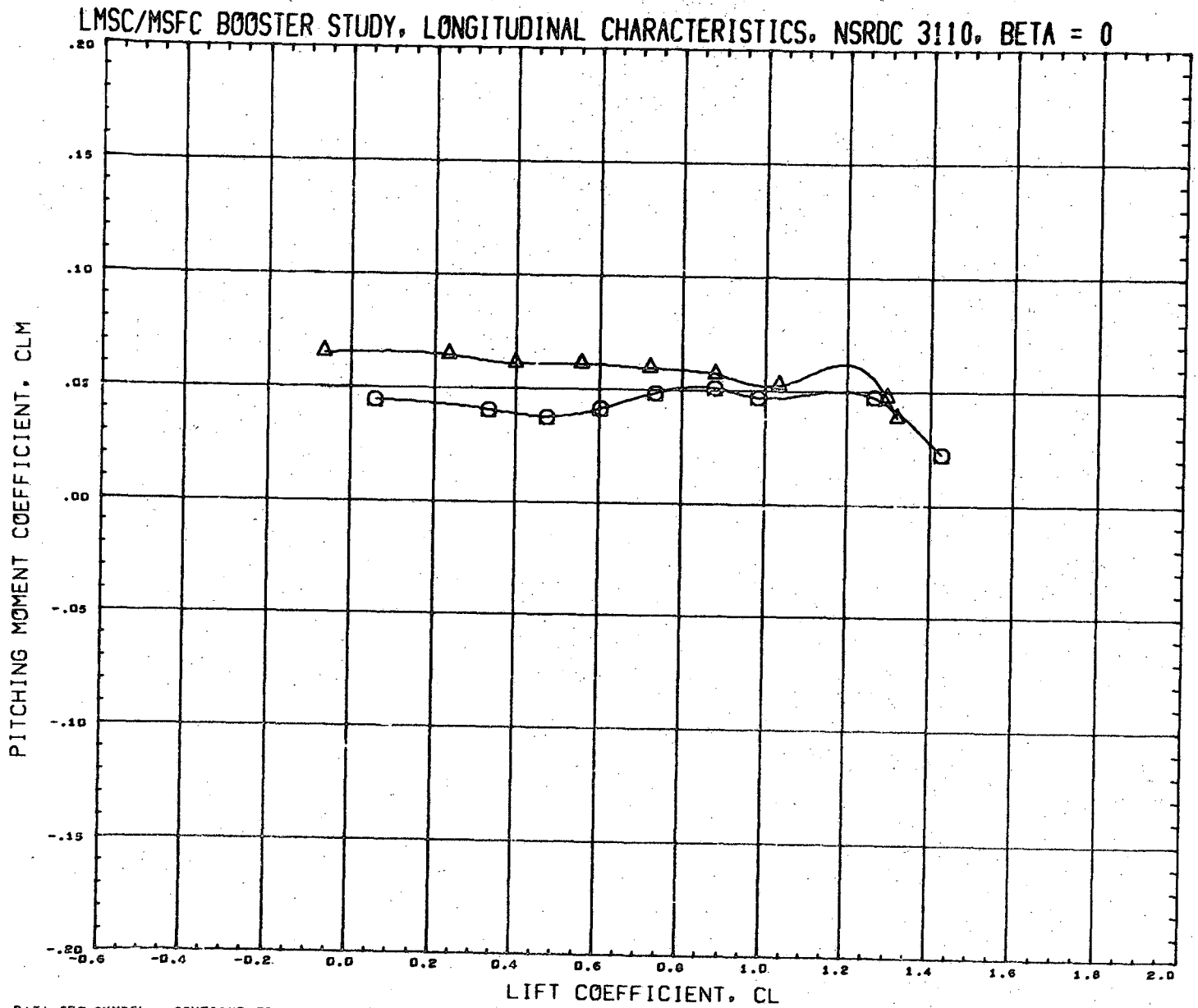
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2101)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2117)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



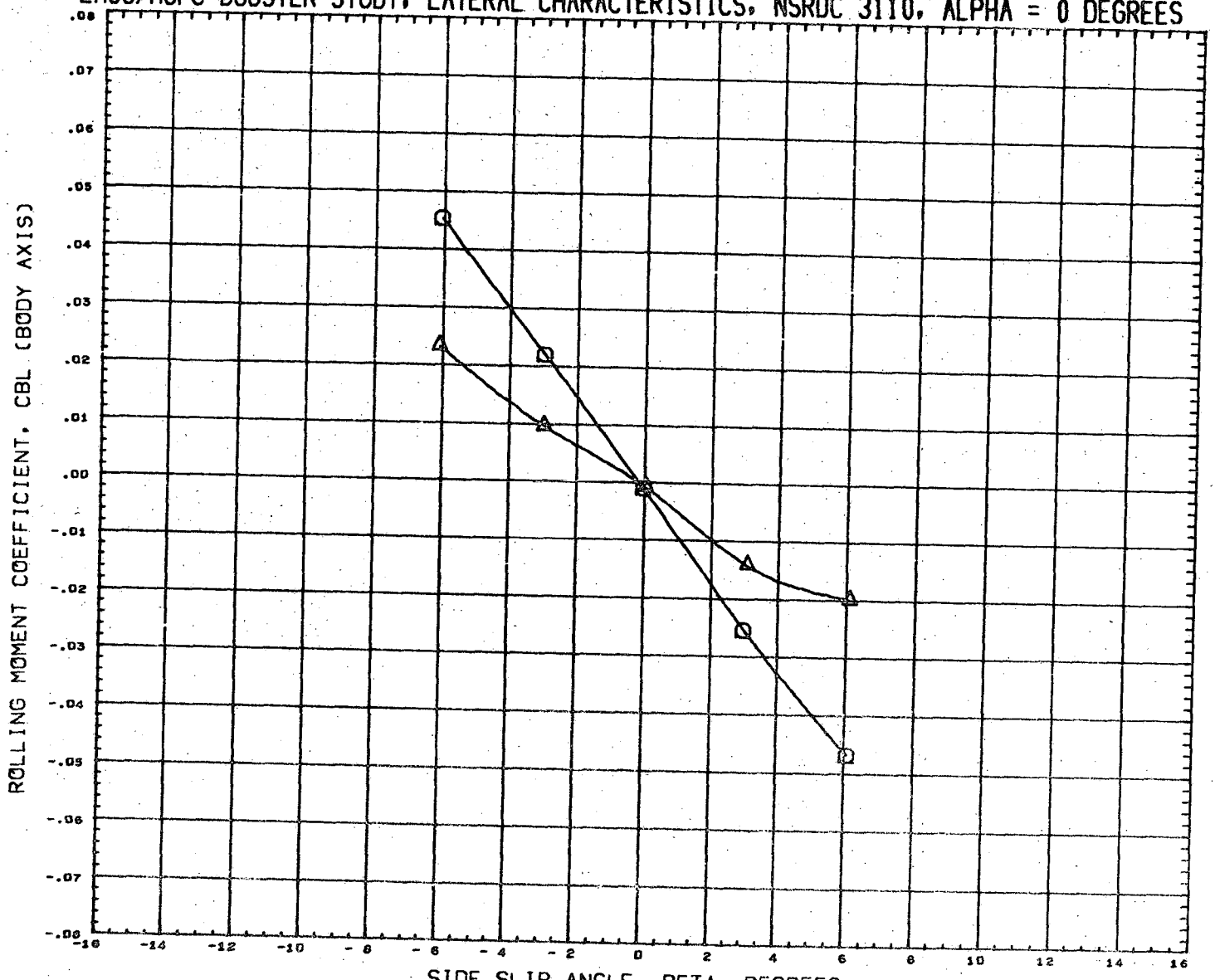
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2101)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2117)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

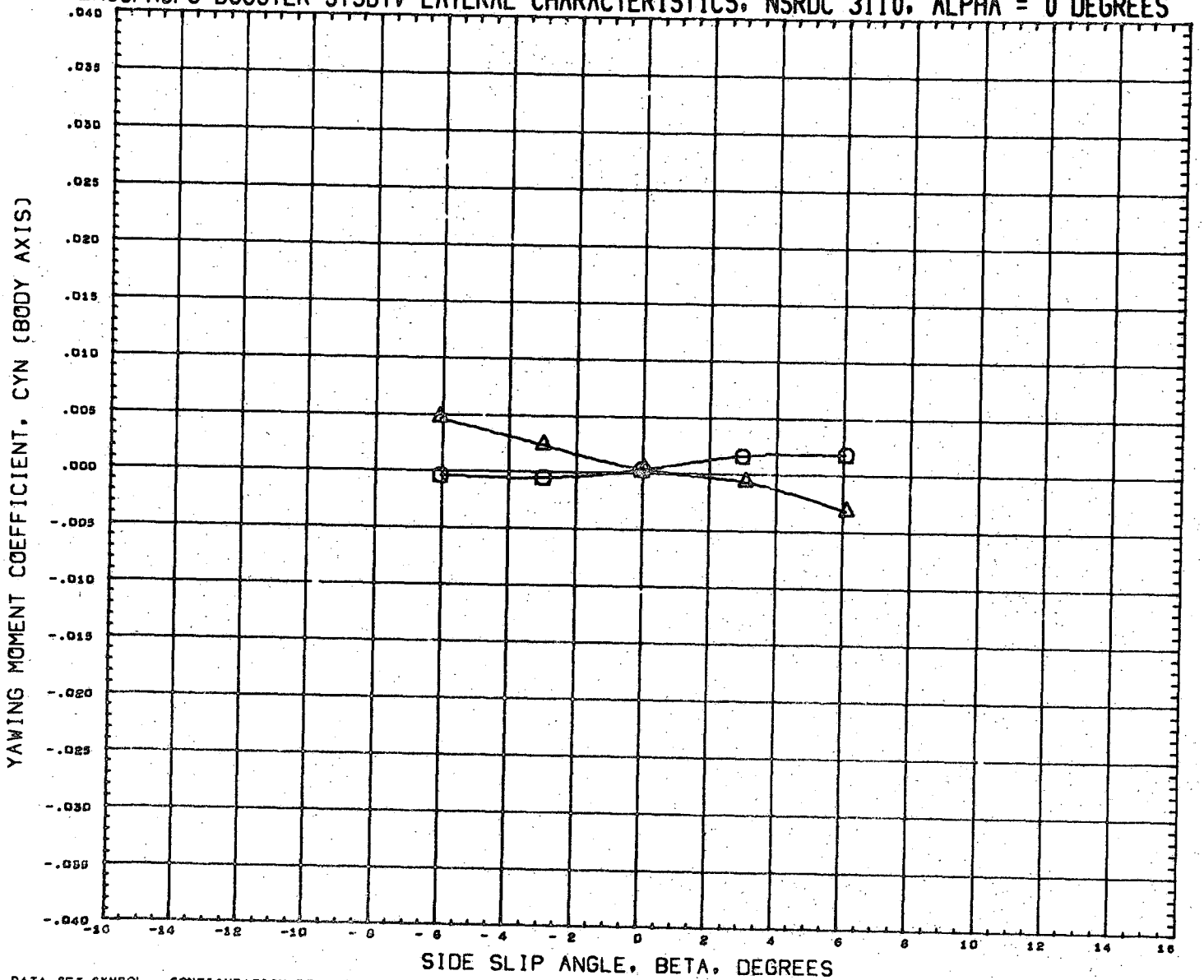


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2102) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2110) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

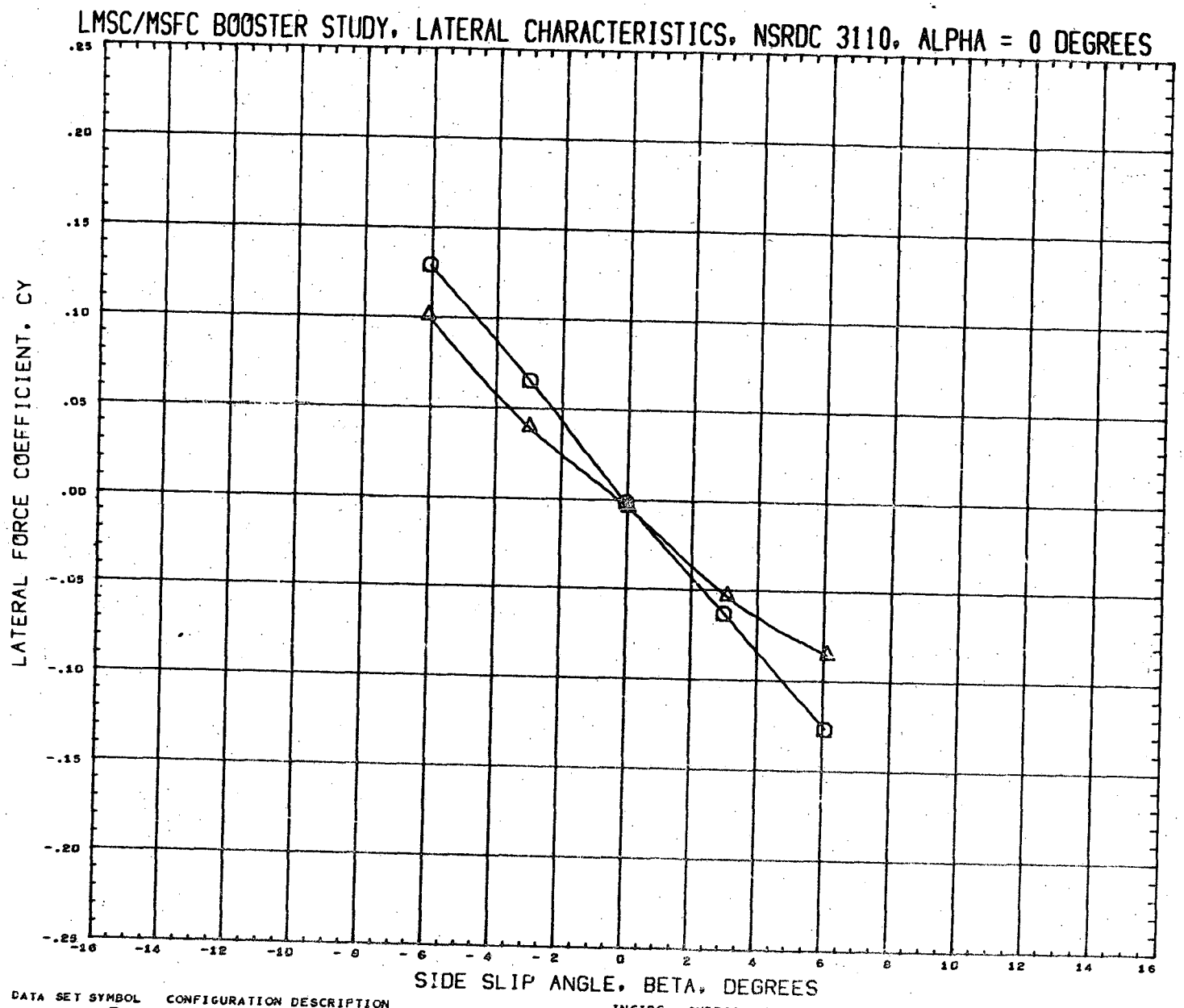


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RN2102)	○	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1
(RN2116)	△	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

MACH 0.380

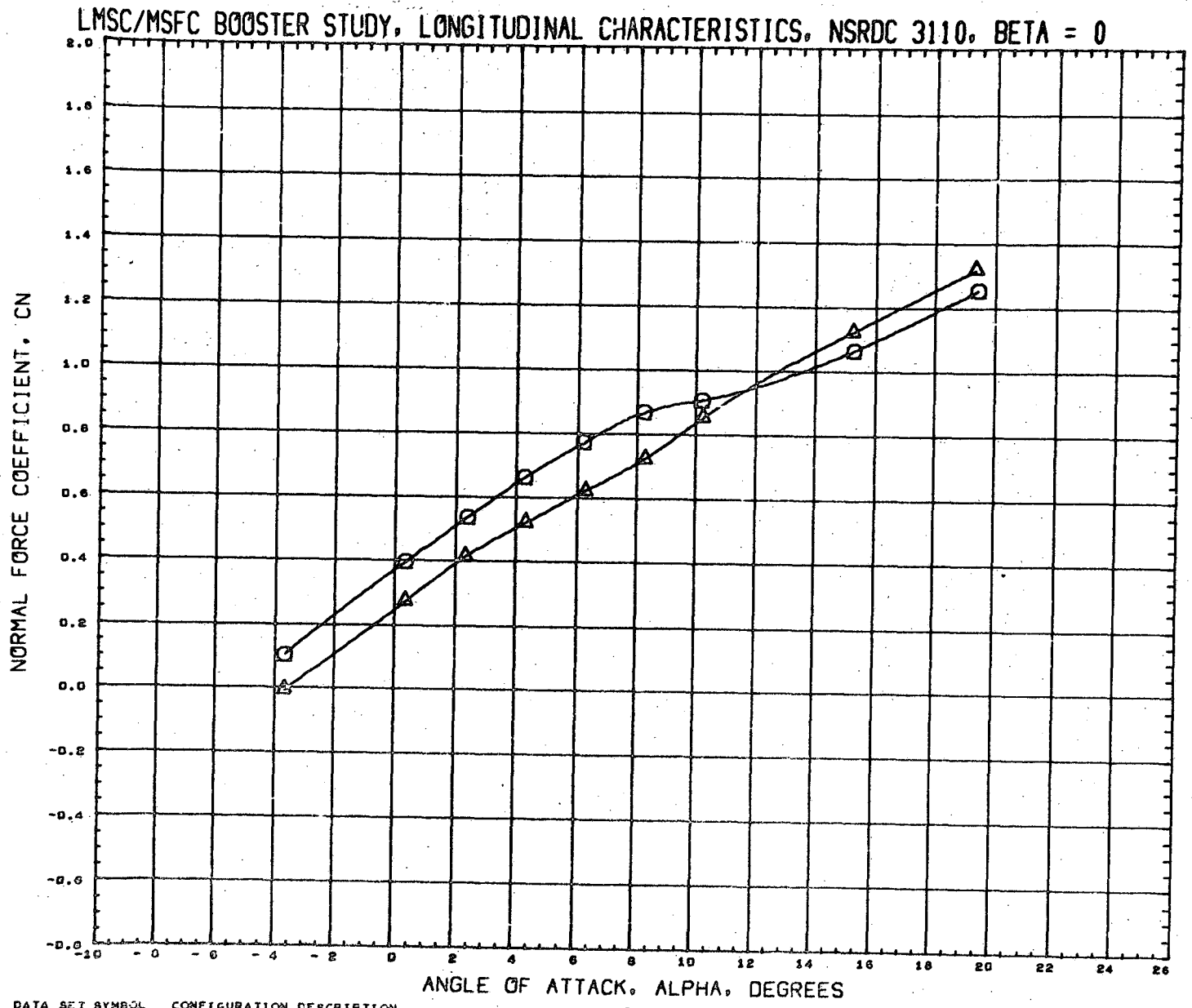
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2102)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000
(RN2116)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000

MACH 0.360

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



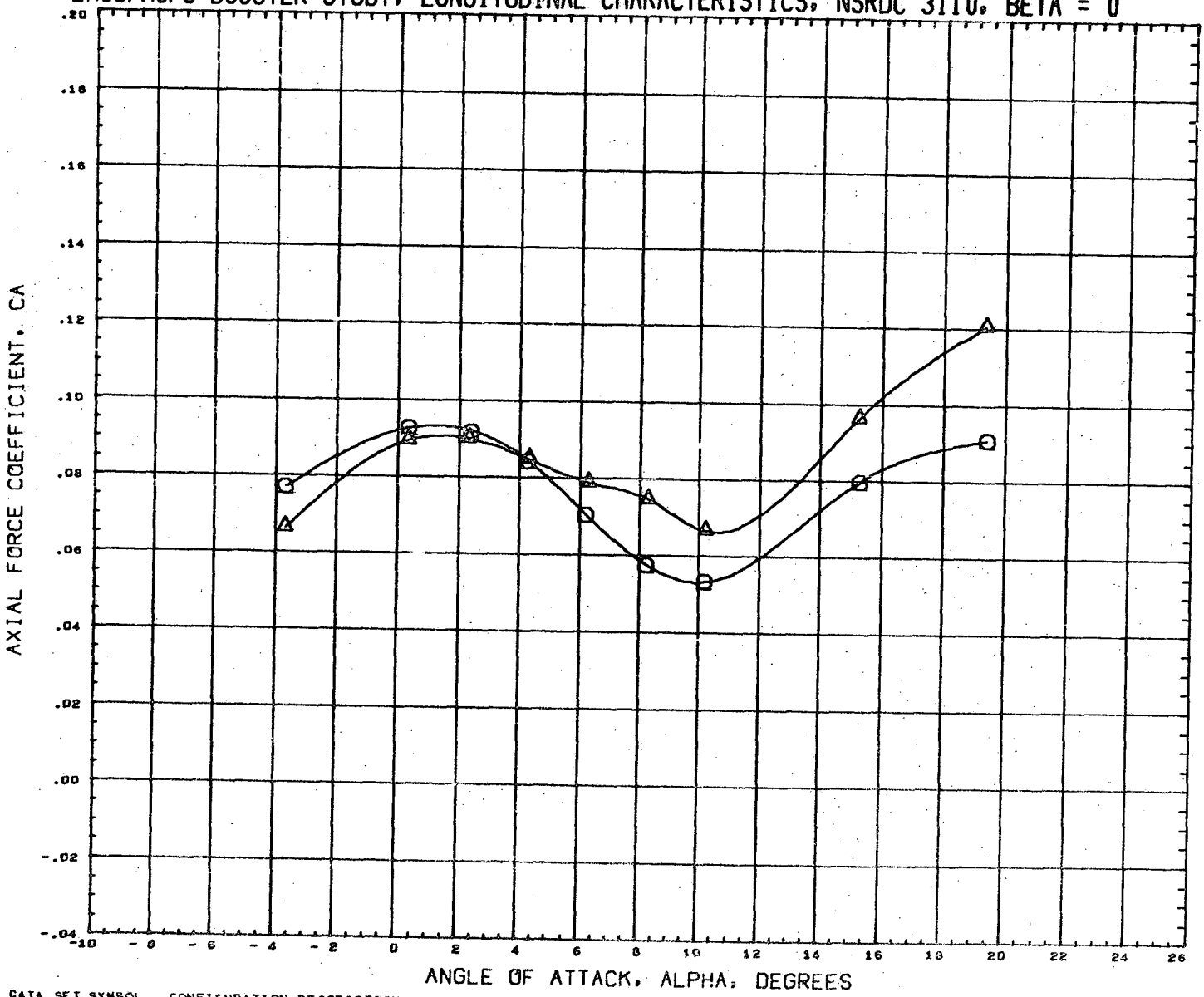
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2129) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000

MACH 0.361

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

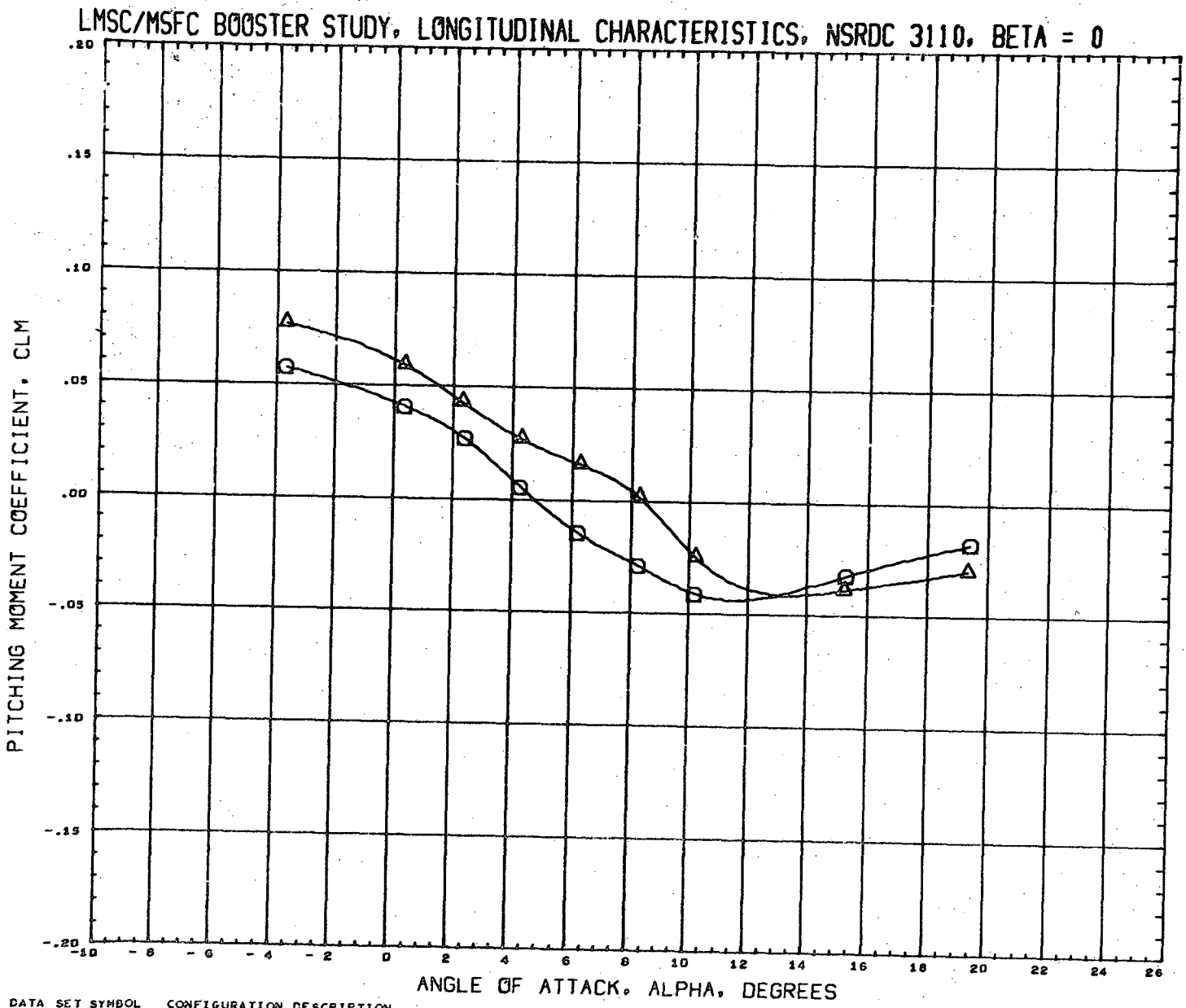
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2125)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

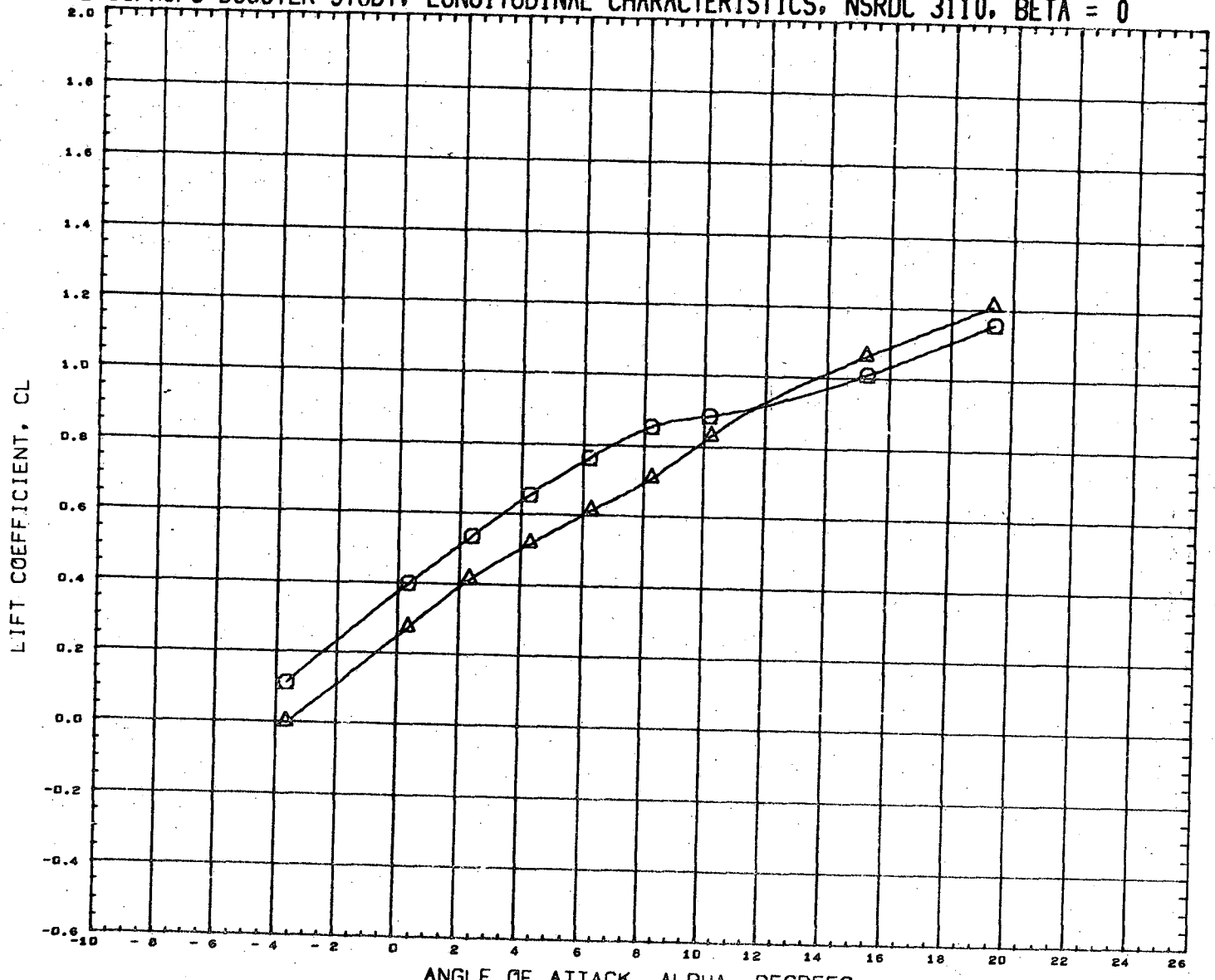


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2125)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

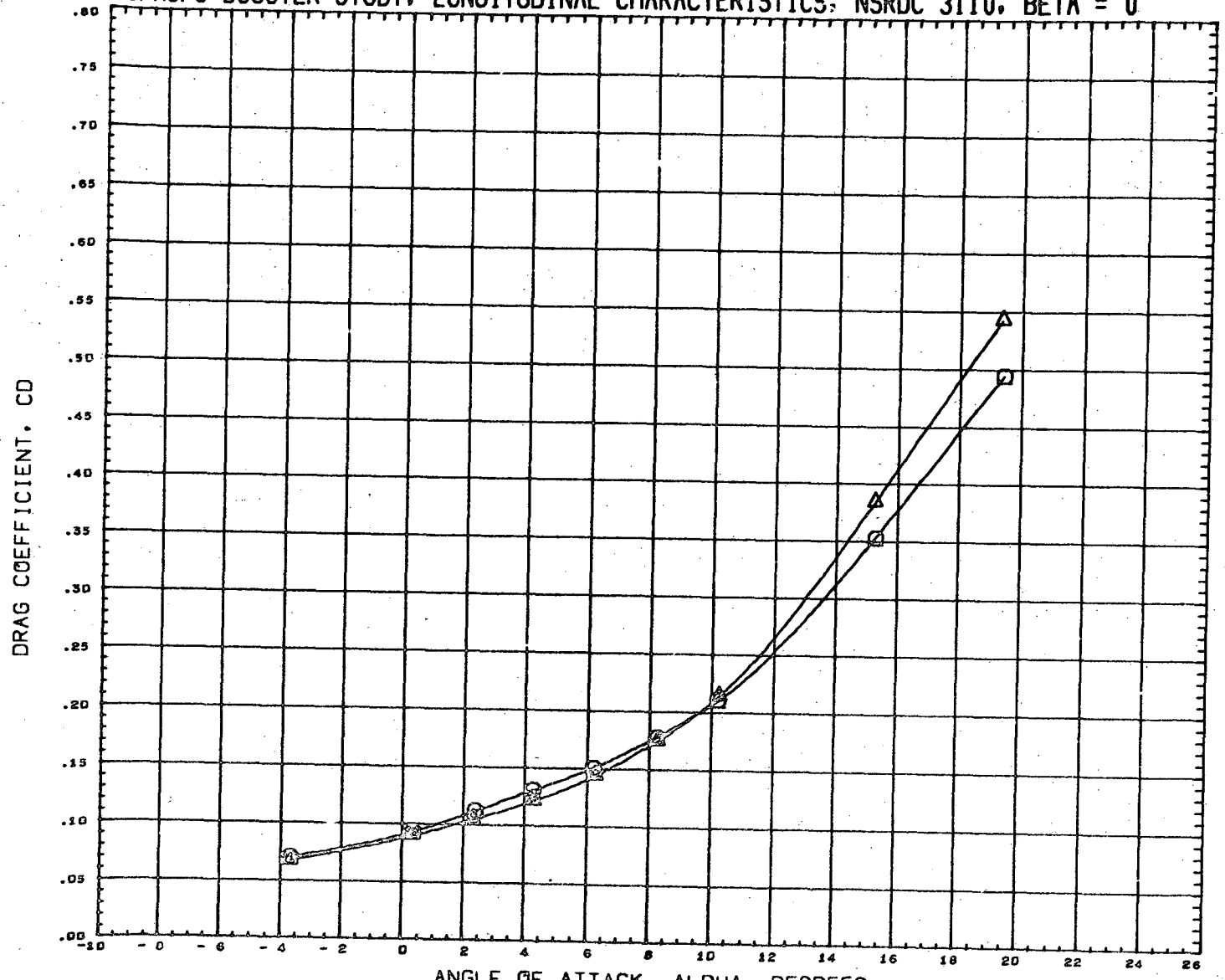


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2125)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



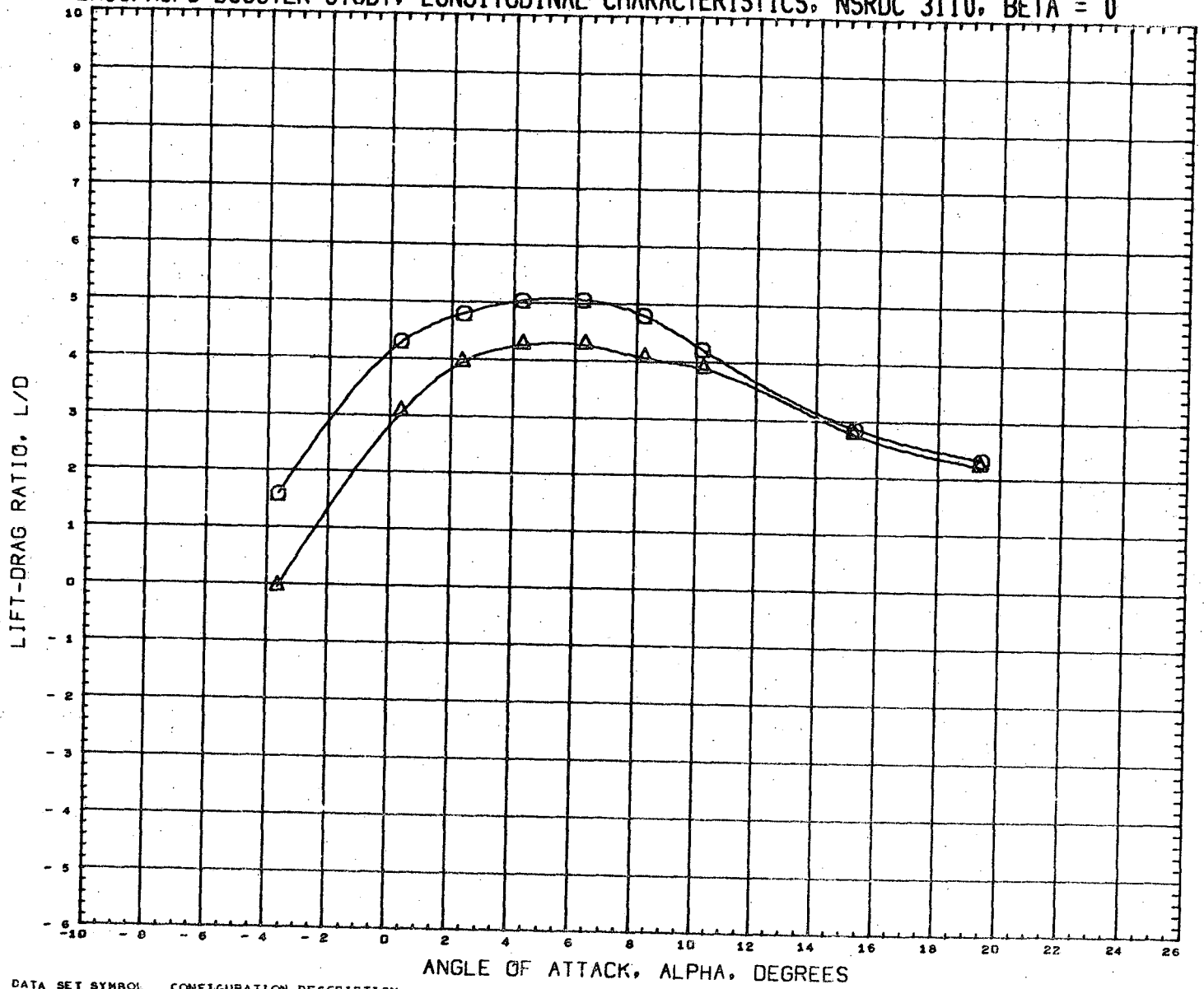
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS
(RN2109)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2125)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.361

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



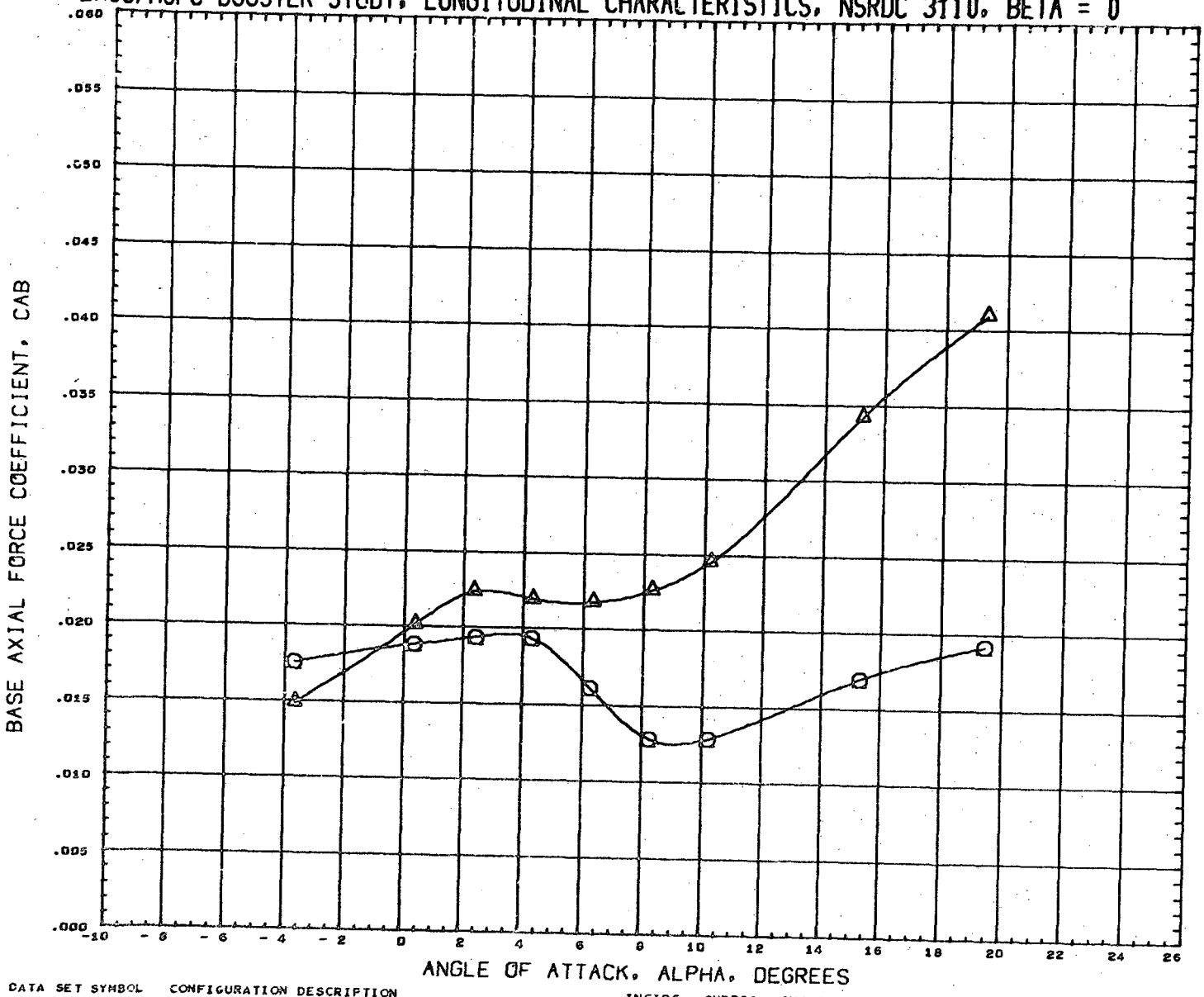
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2109)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2125)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

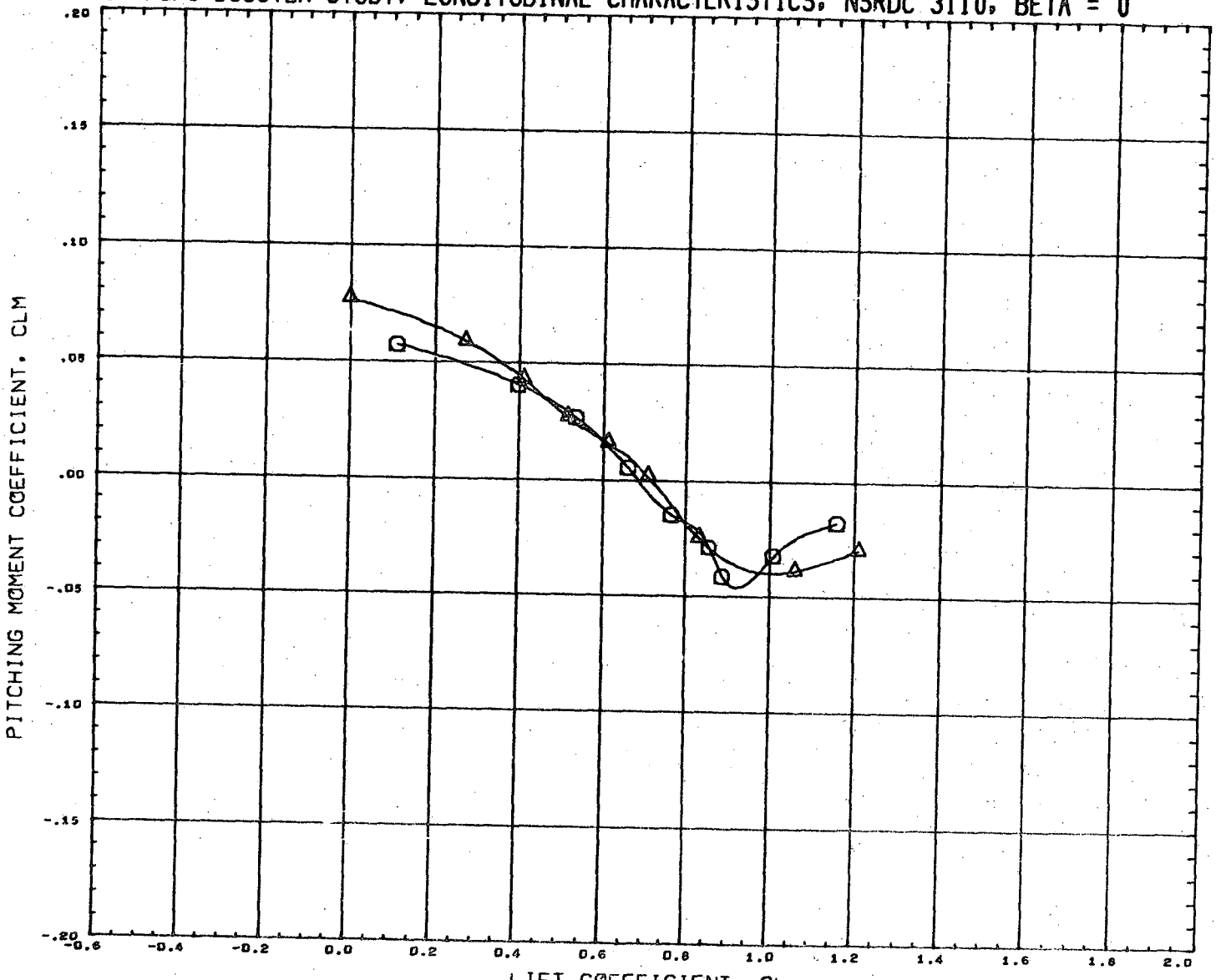


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2125)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

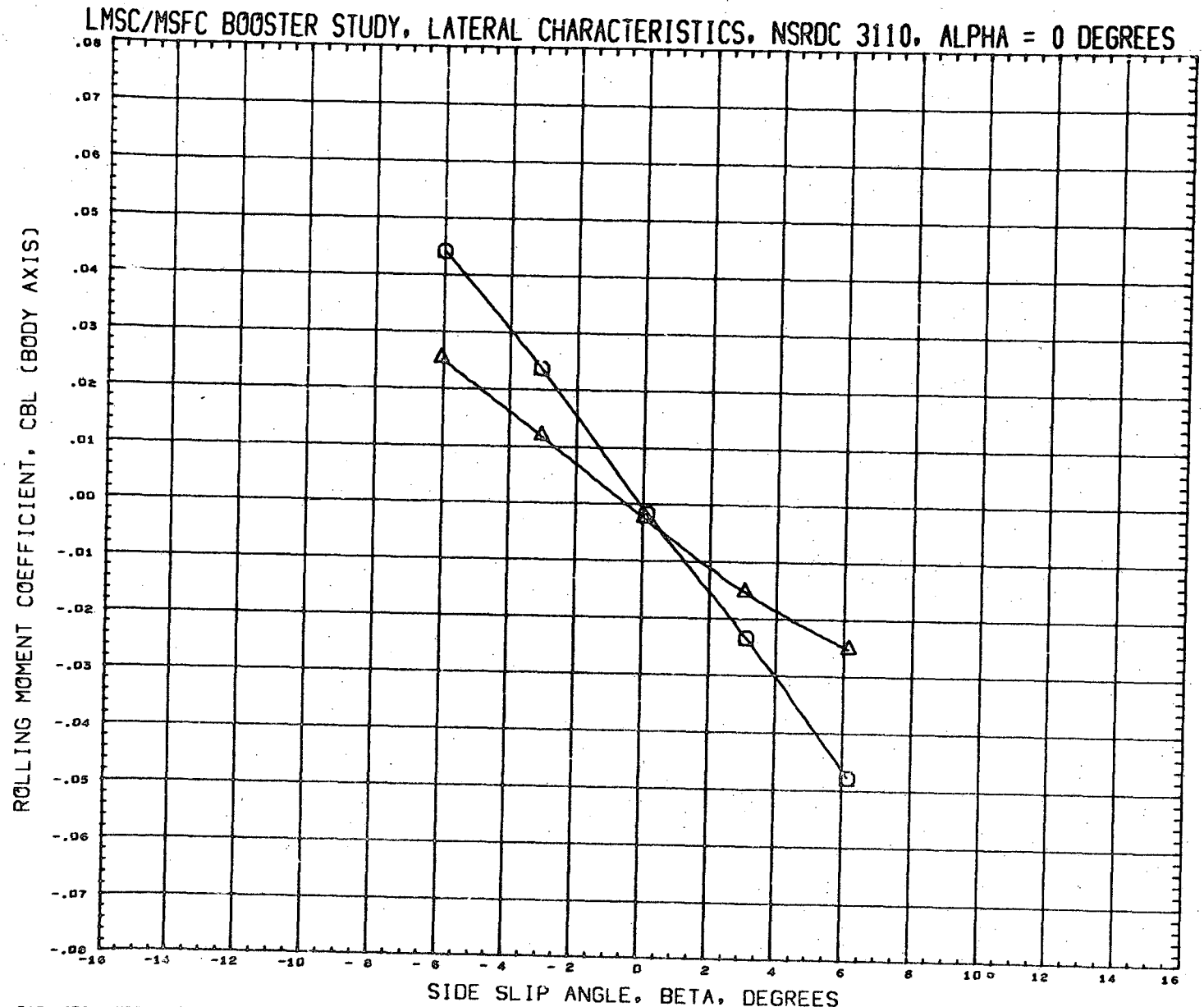
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2109)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2125)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

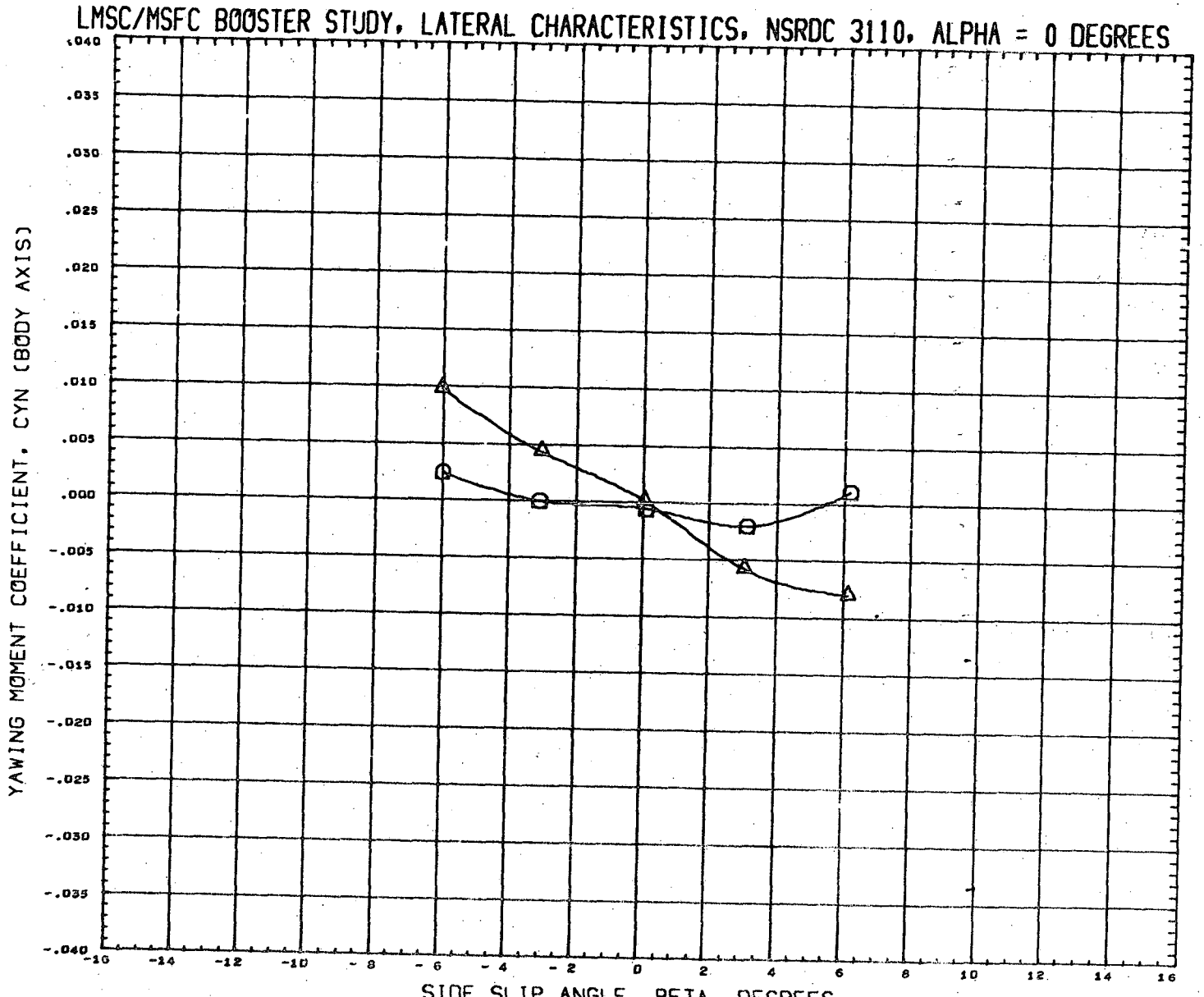


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RN2110)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2126)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.360



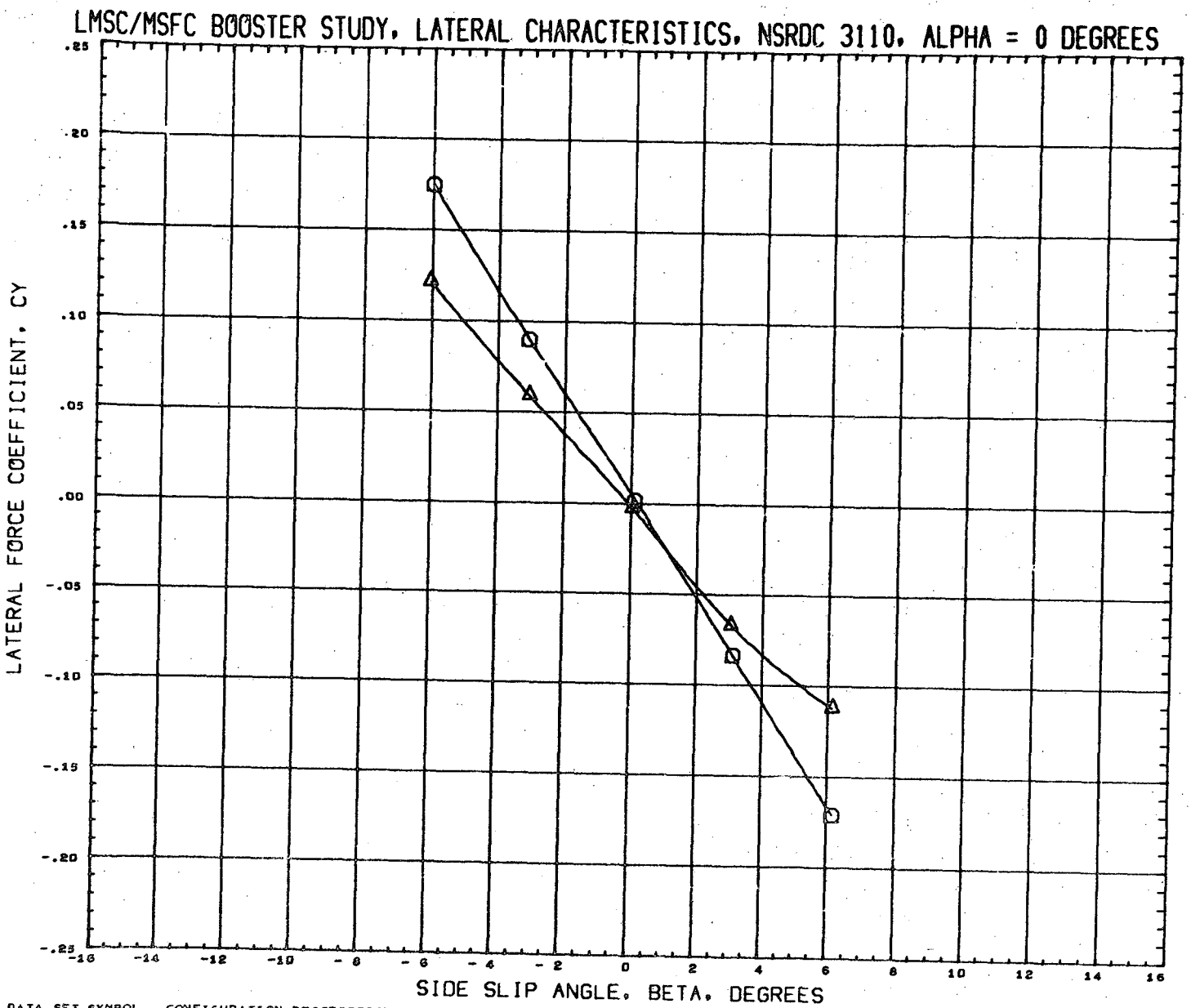
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2110) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2126) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.360

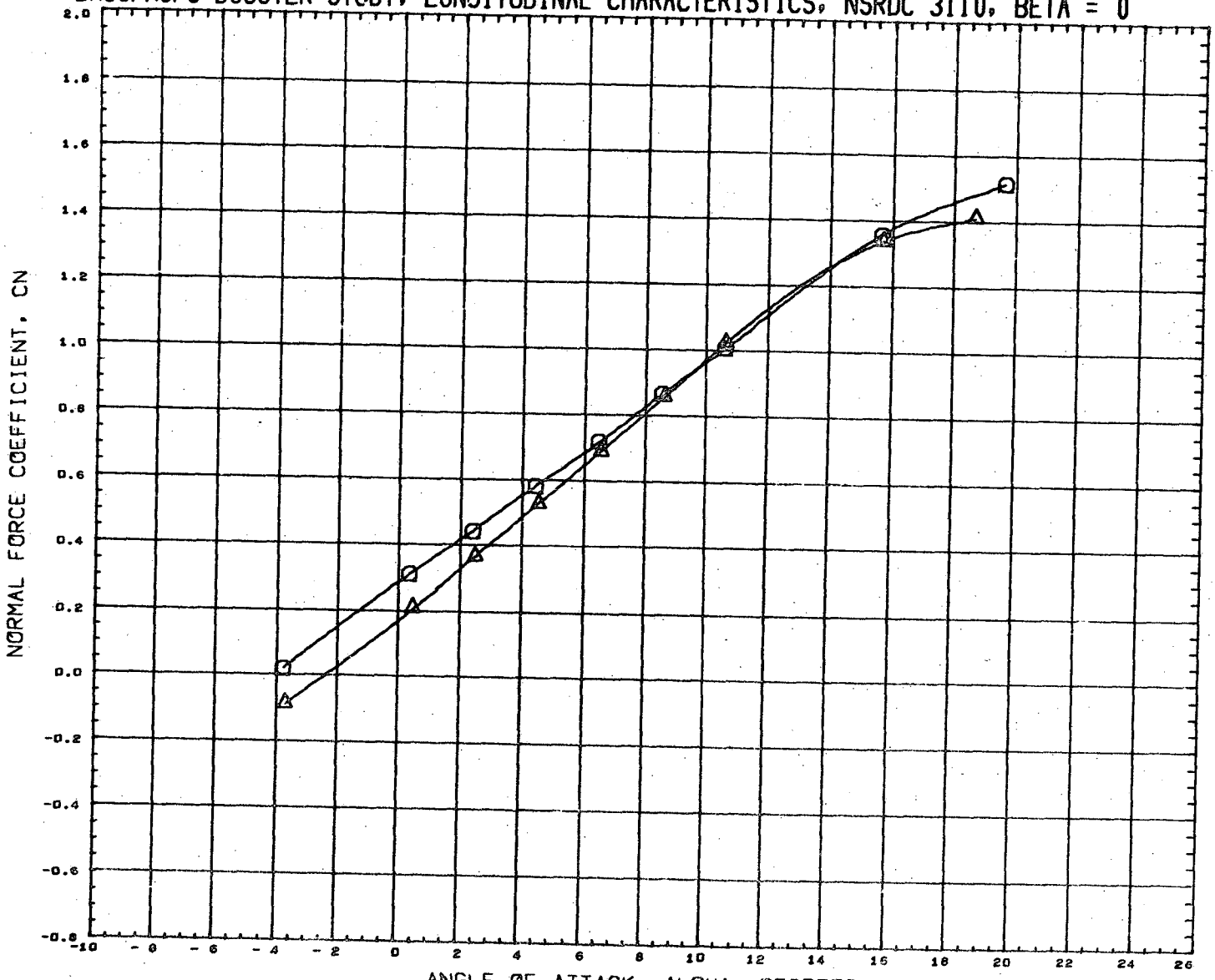


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2110)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000
(RN2126)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000

MACH 0.380

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

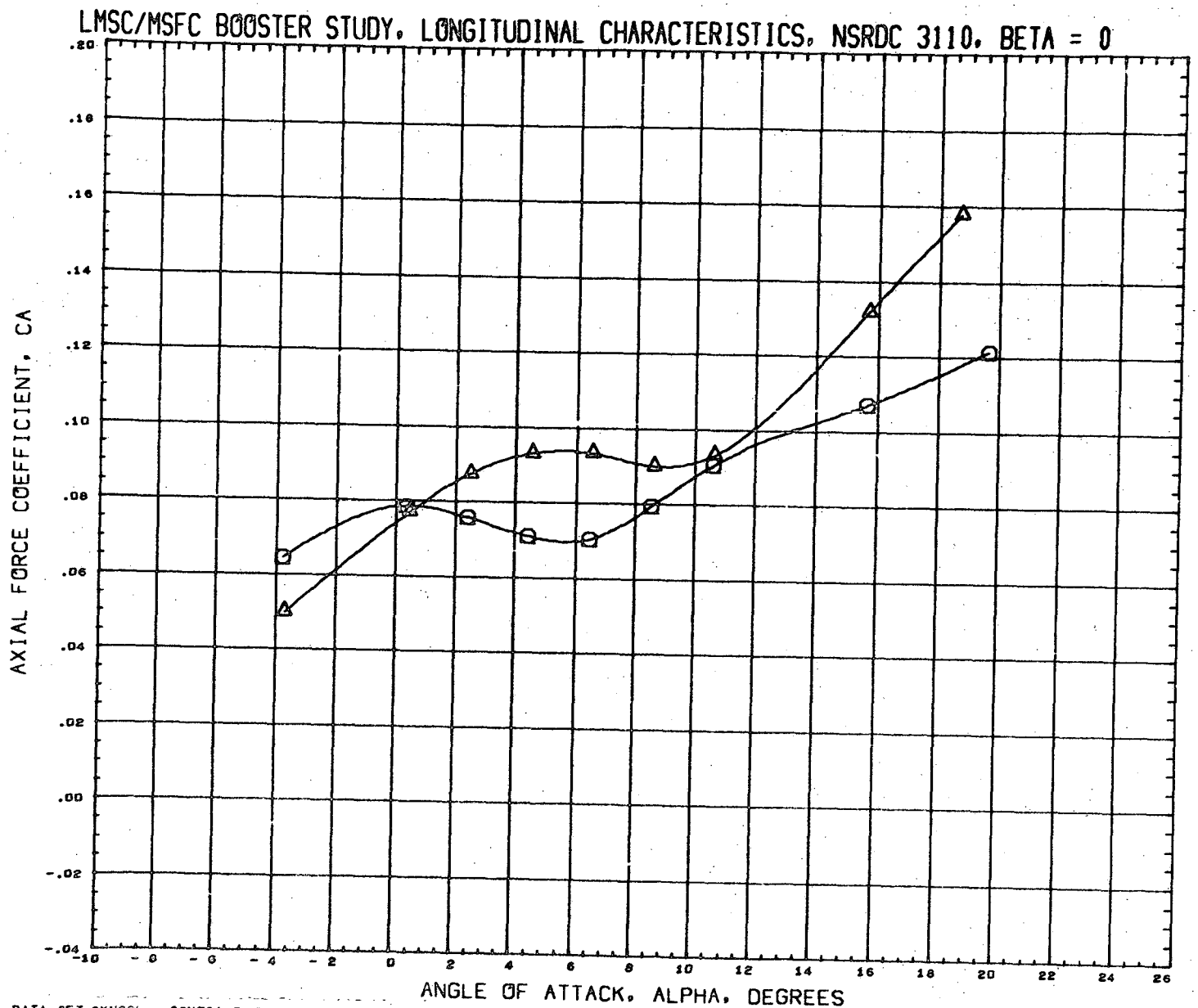
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2165)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000
(RN2181)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



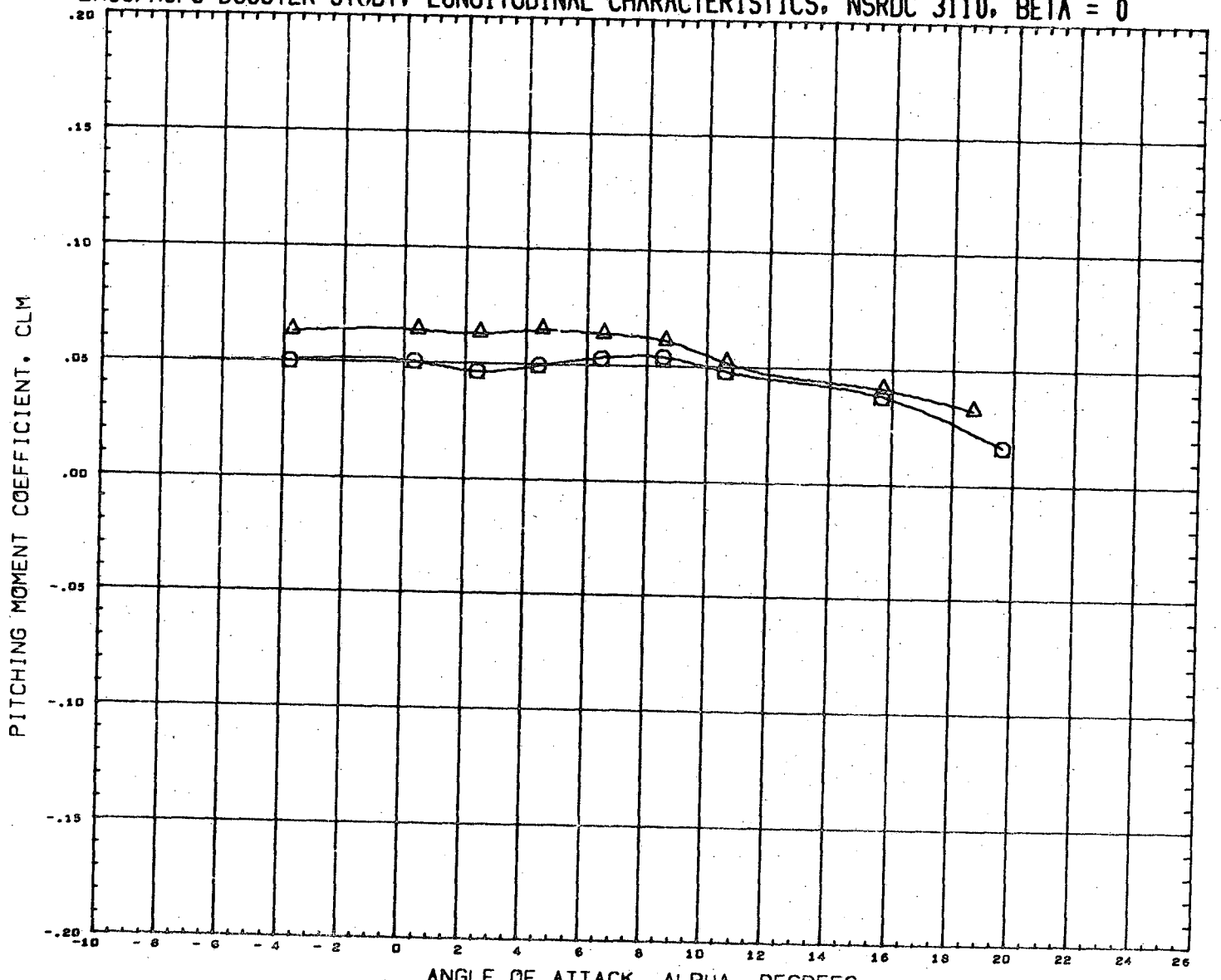
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2165)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000
(RN2181)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

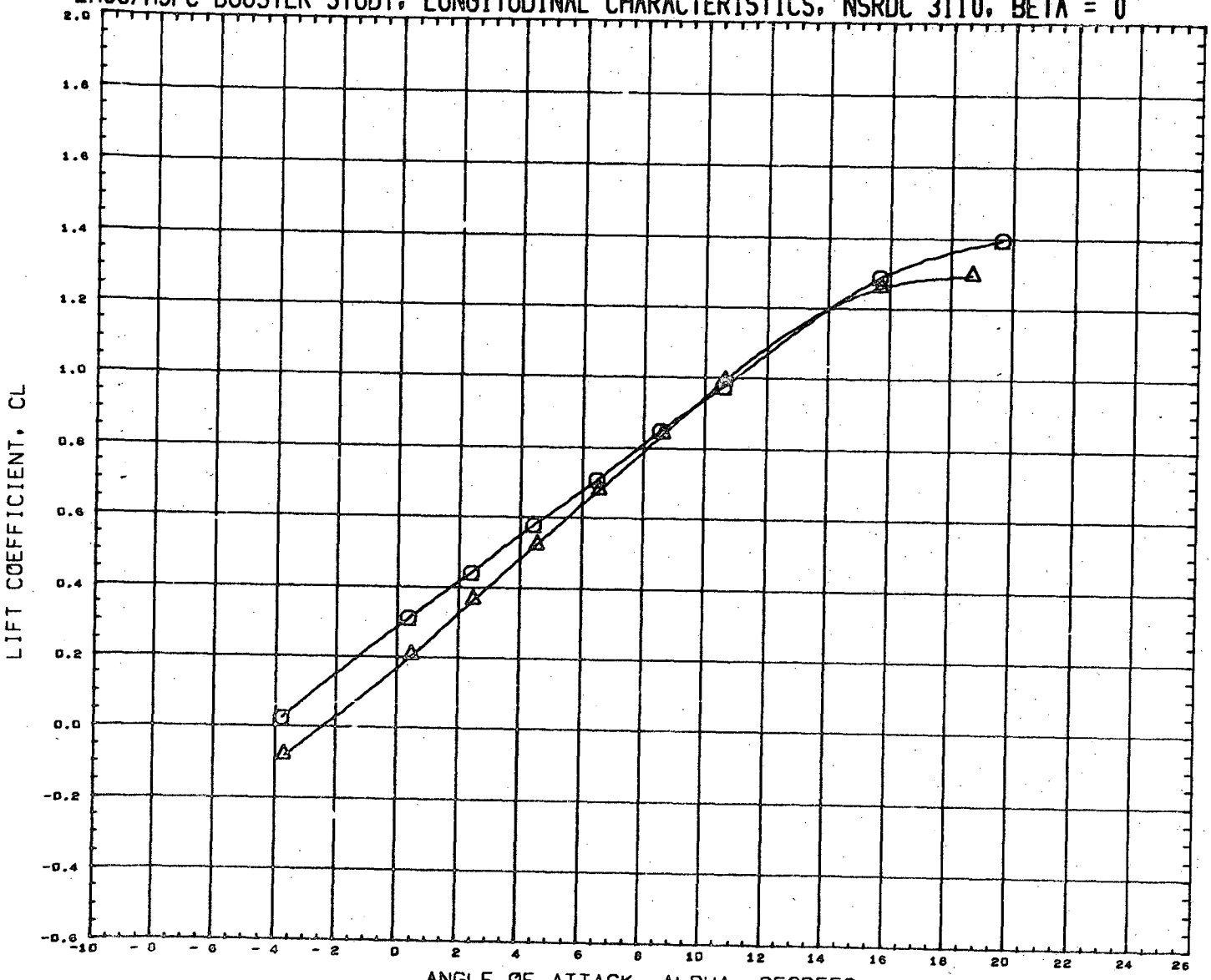


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2165)	○	N3RDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000
(RN2181)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

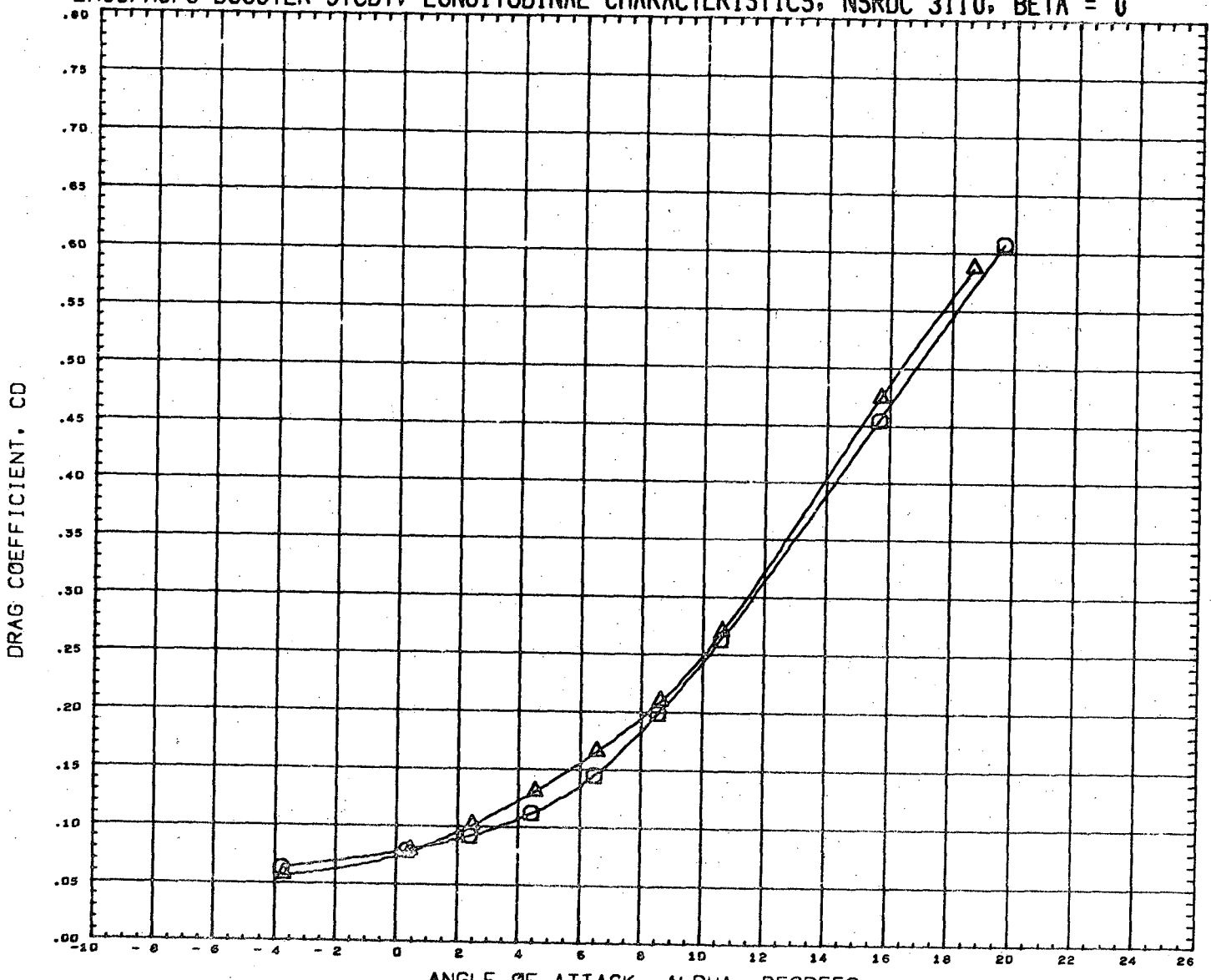


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2165)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000
(RN2161)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2165)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000
(RN2181)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.382

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

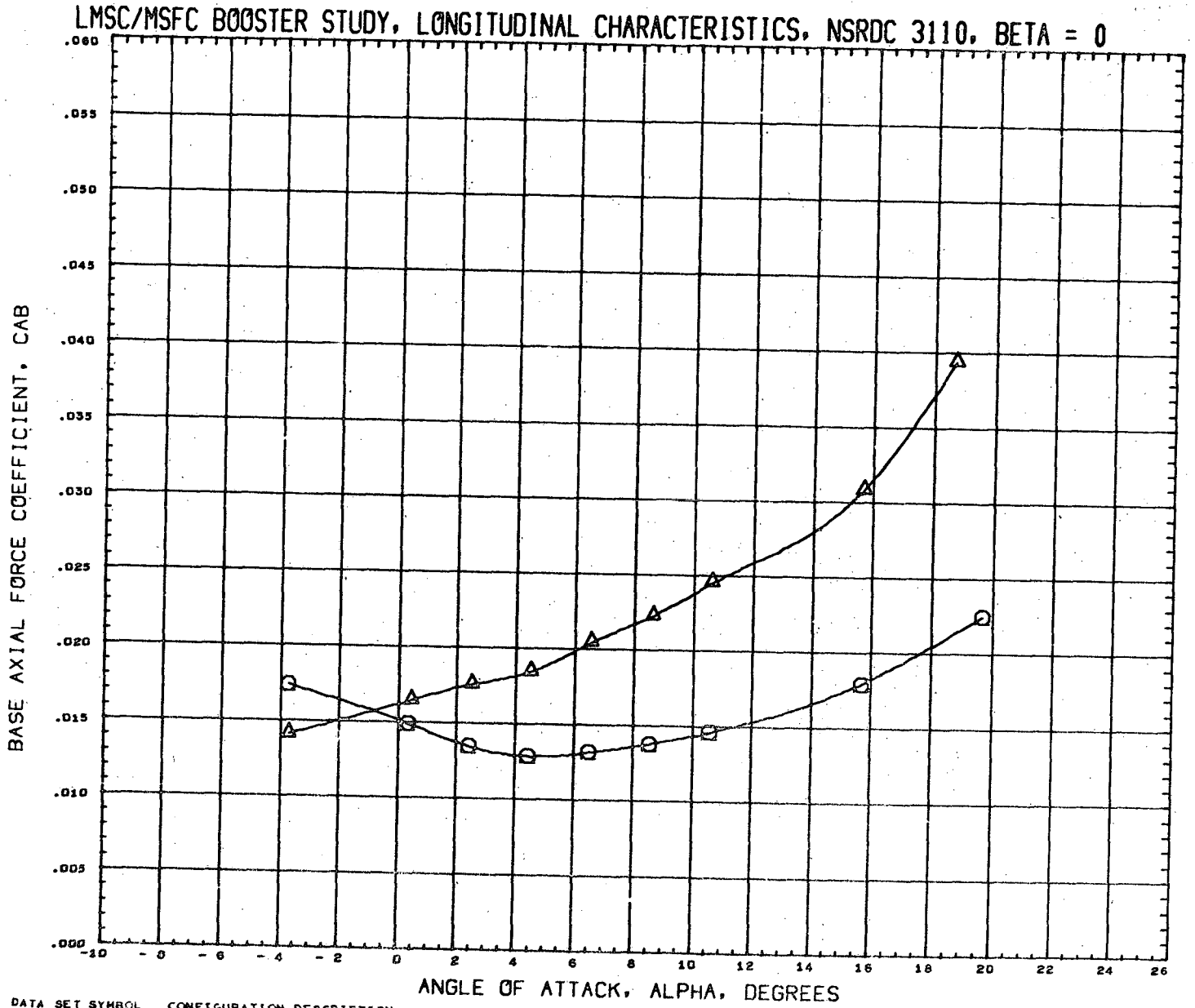
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2165)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000
(RN2161)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.362

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

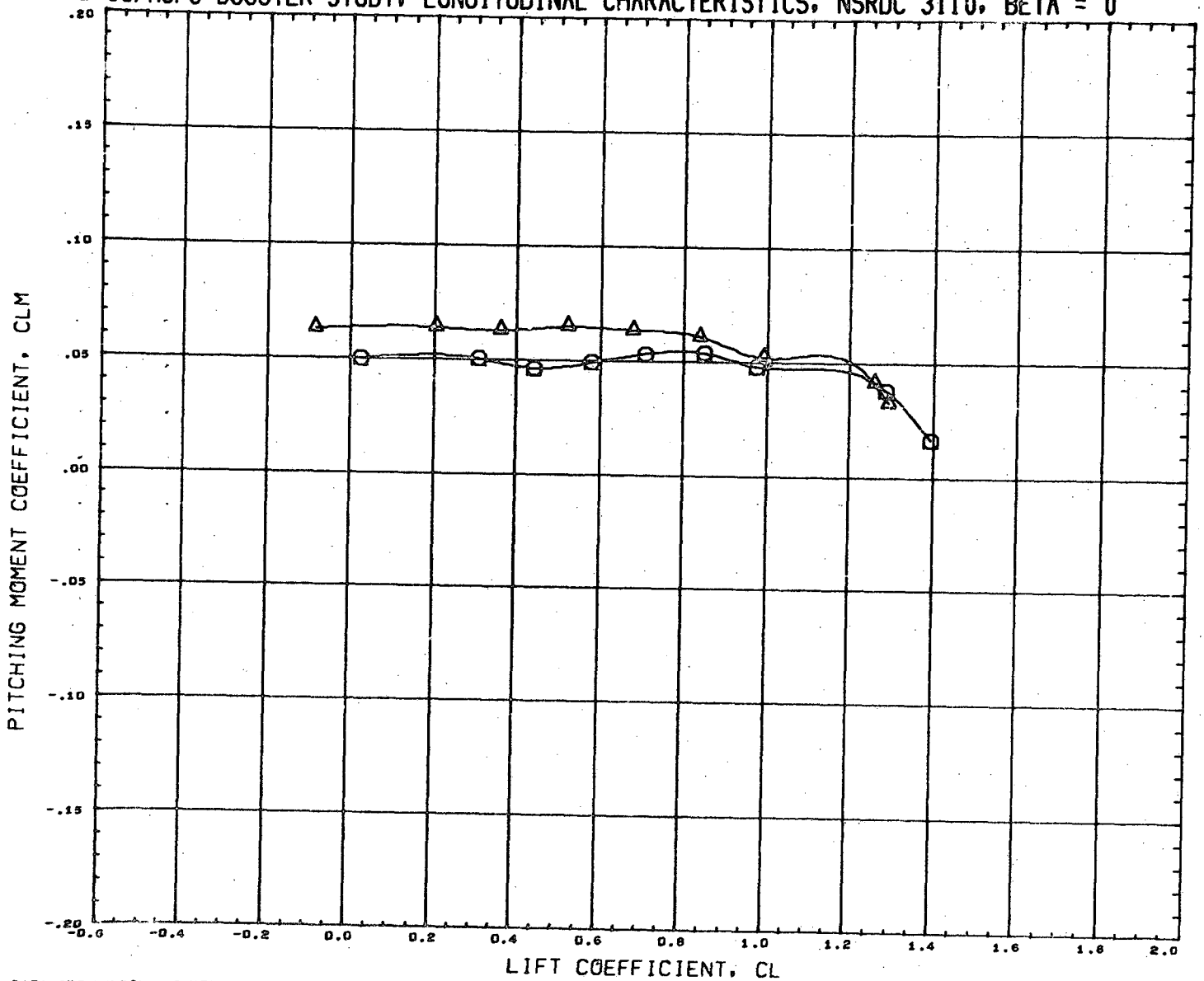


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2165)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000
(RN2161)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.362

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



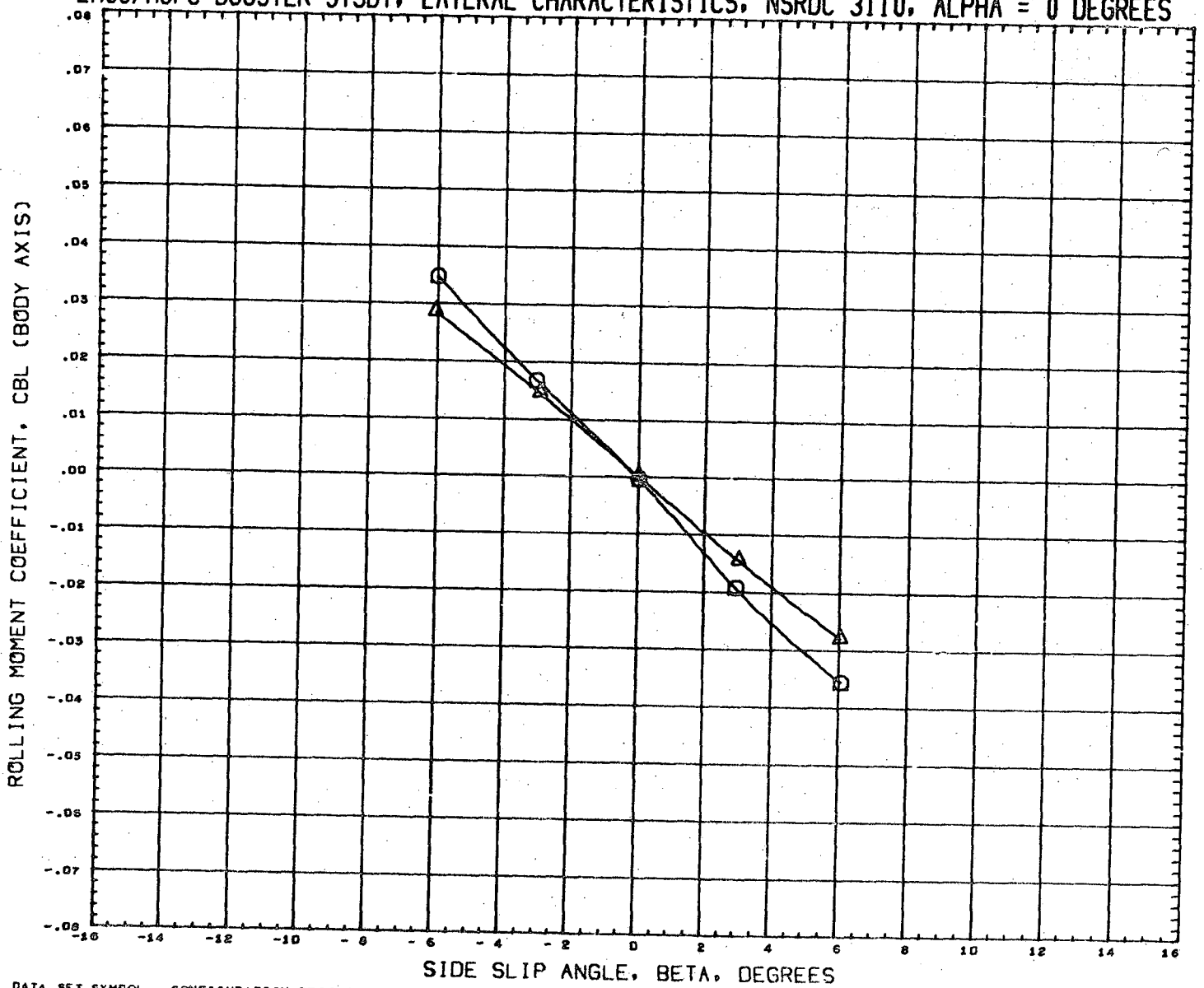
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2165)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000
(RN2181)		NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.362

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

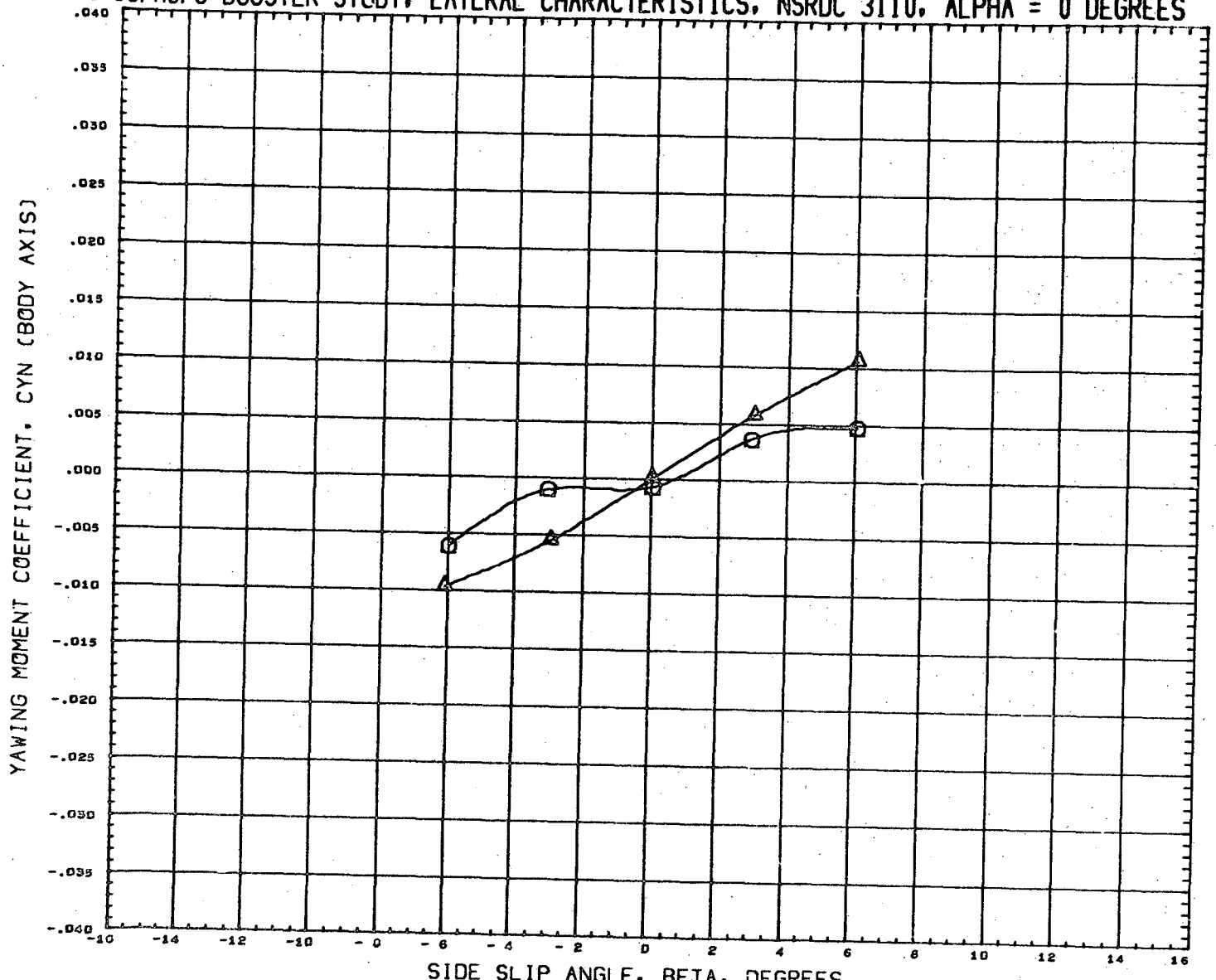


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2166)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000
(RN2182)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

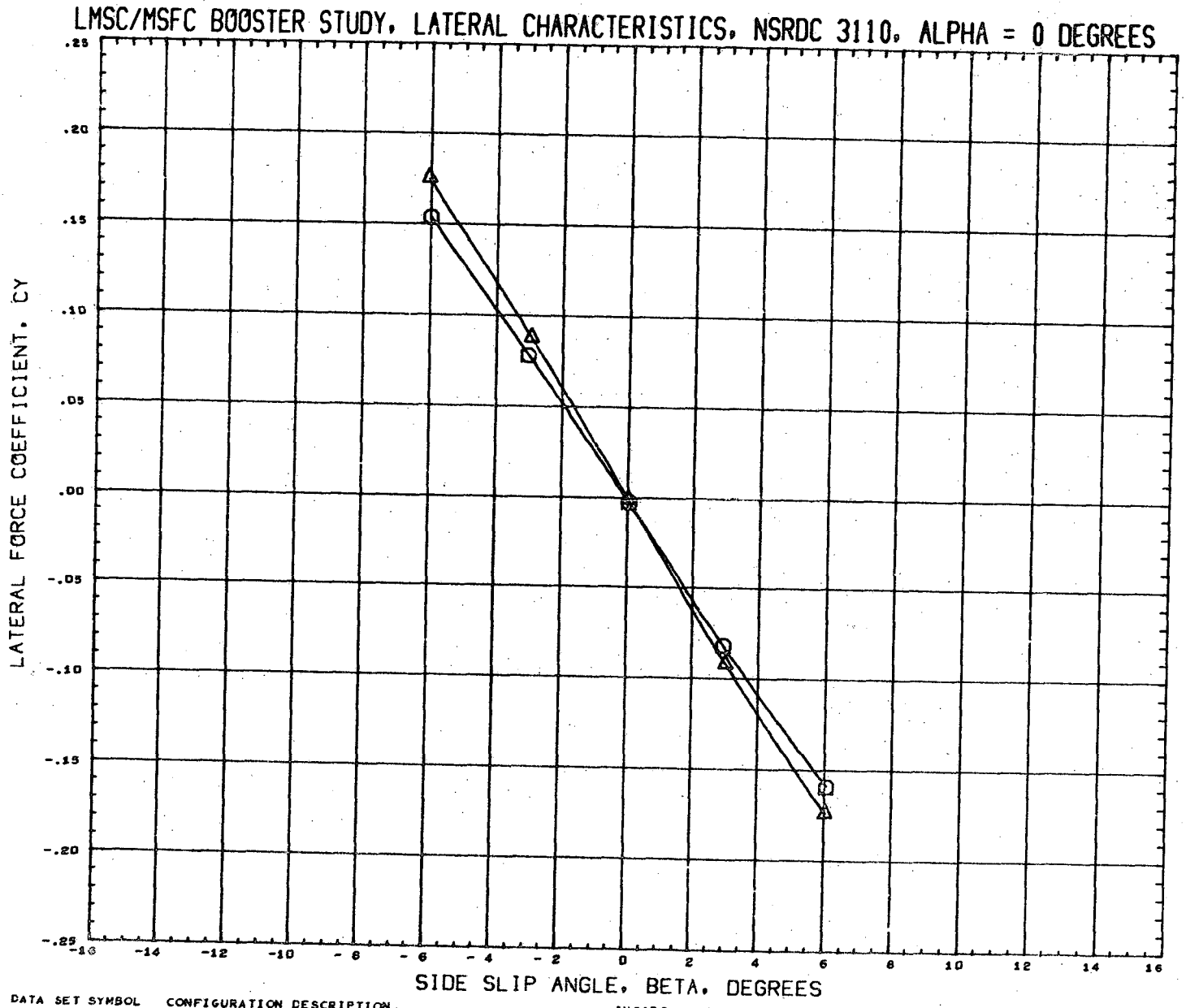
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2166)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000
(RN2182)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

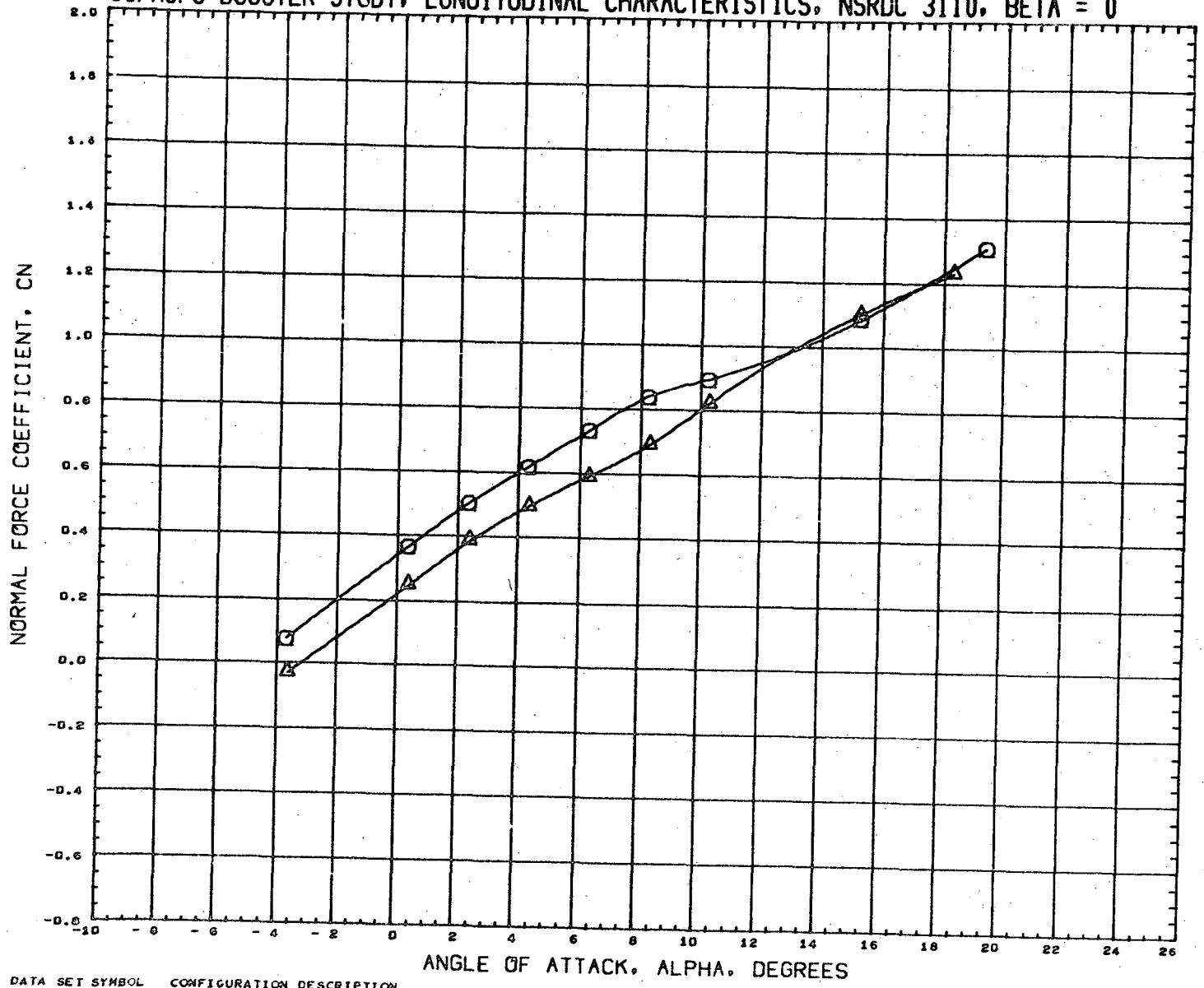


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2166)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000
(RN2182)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



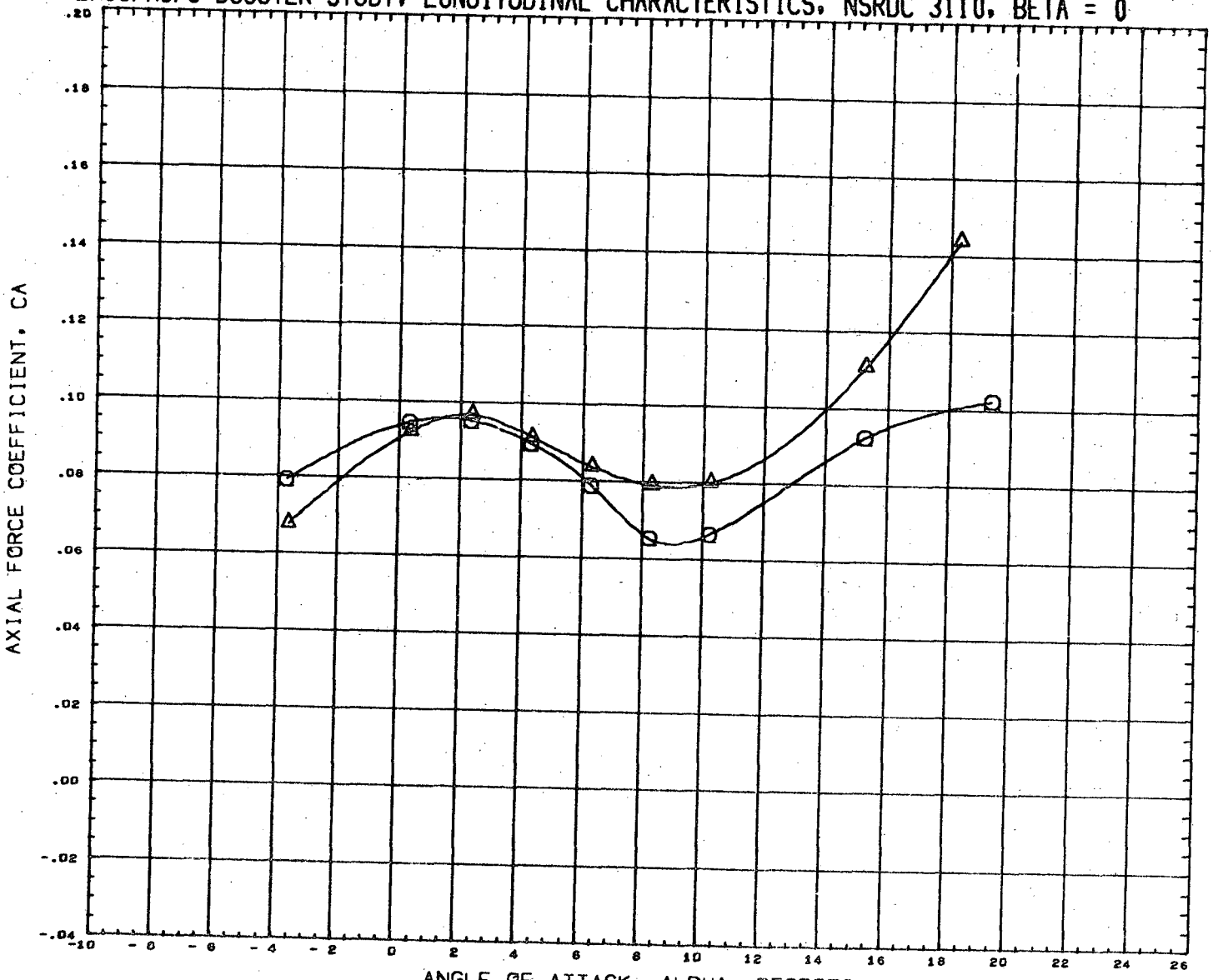
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2173)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000
(RN2189)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

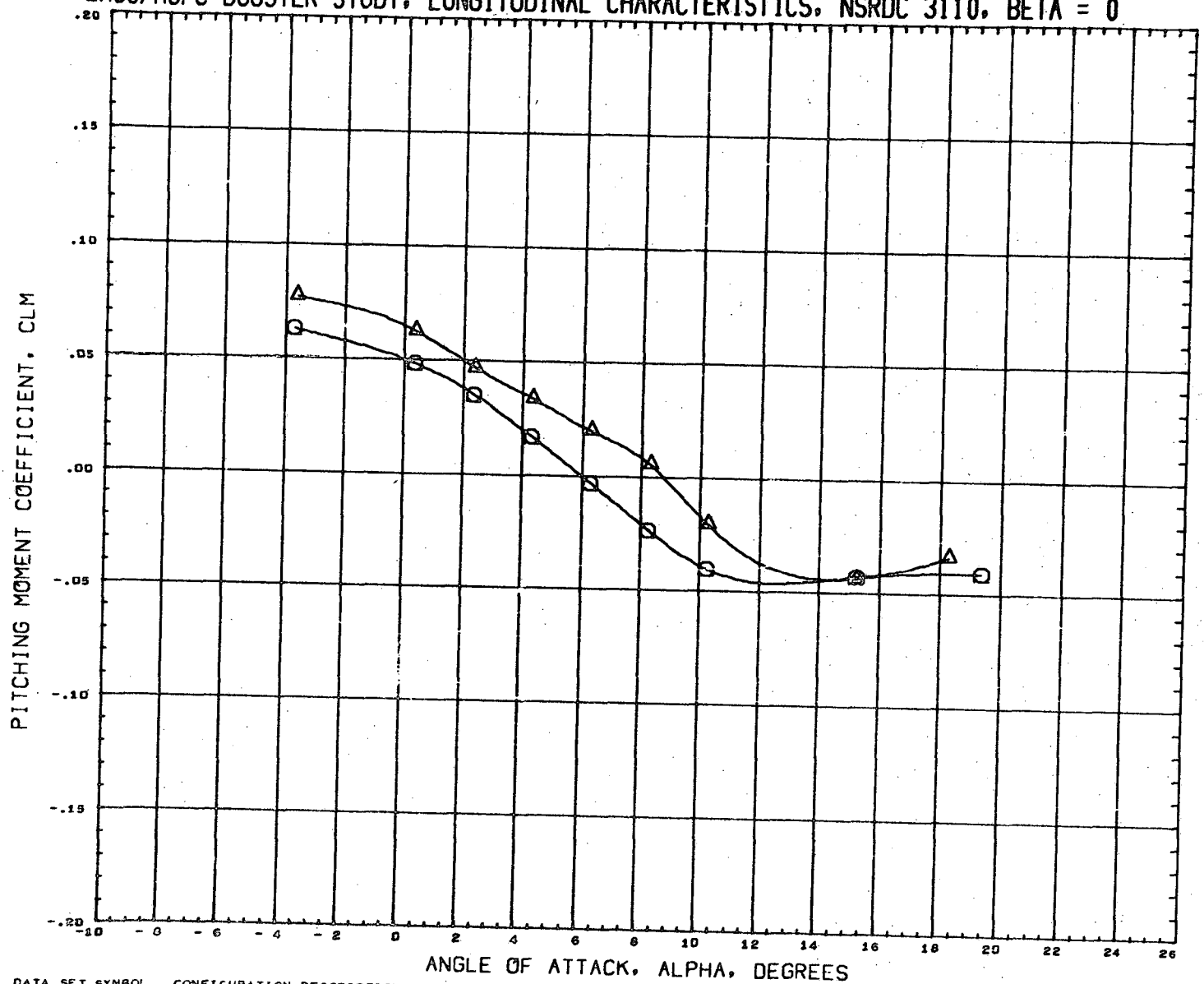


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2173)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000
(RN2189)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



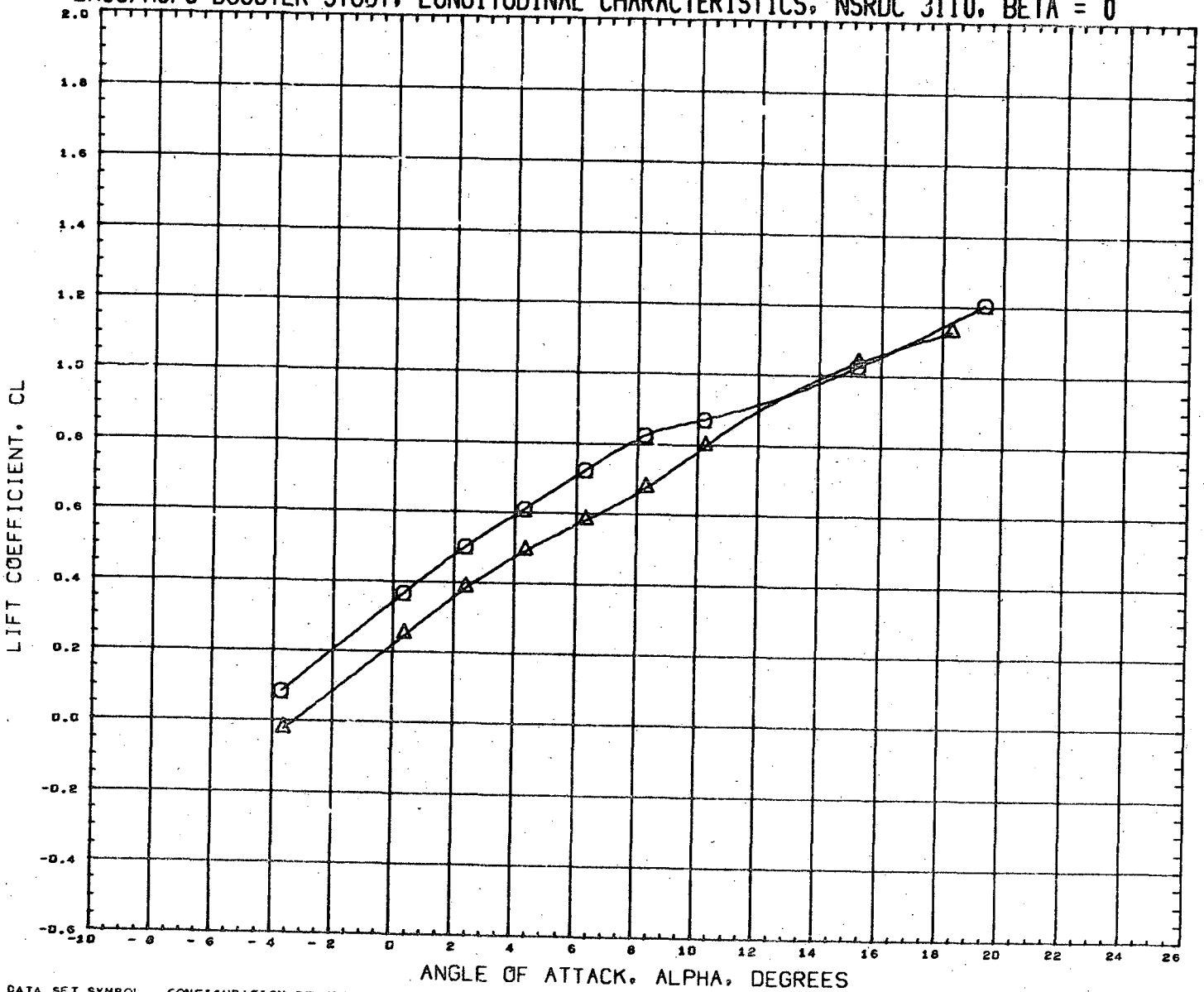
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2173)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000
(RN2169)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

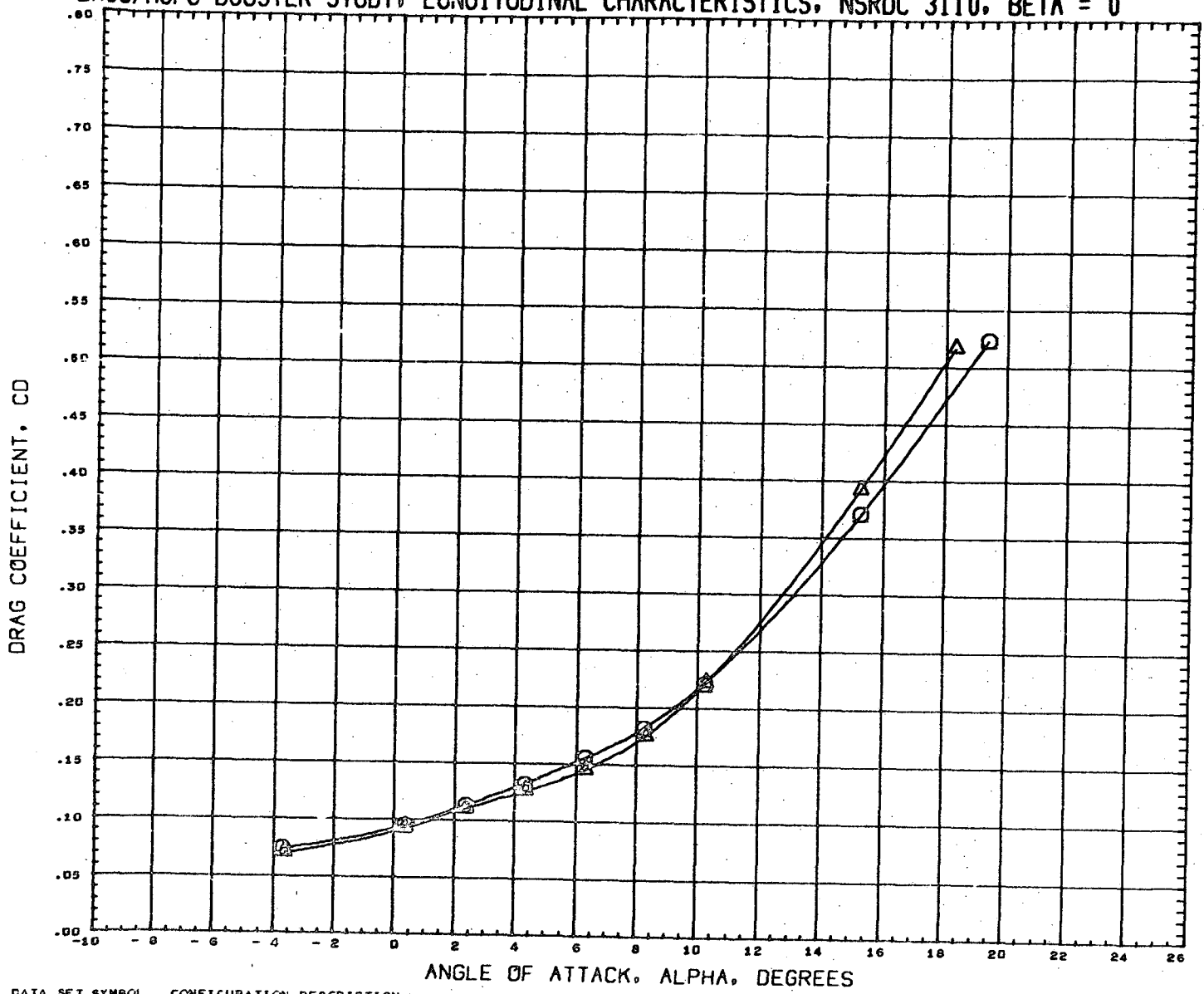


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2173)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000
(RN2169)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2173)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000
(RN2189)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

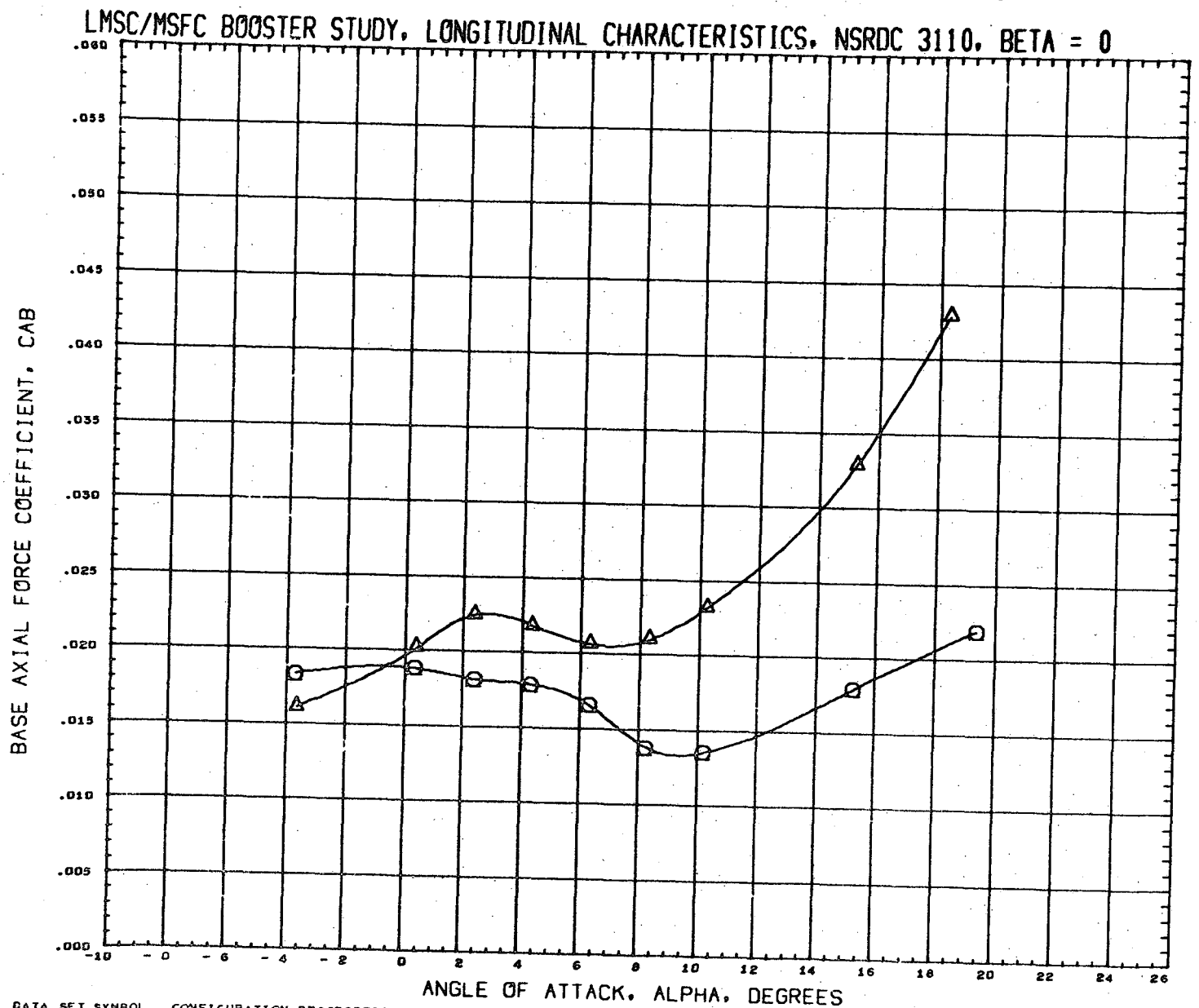
REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2173)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000
(RN2189)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

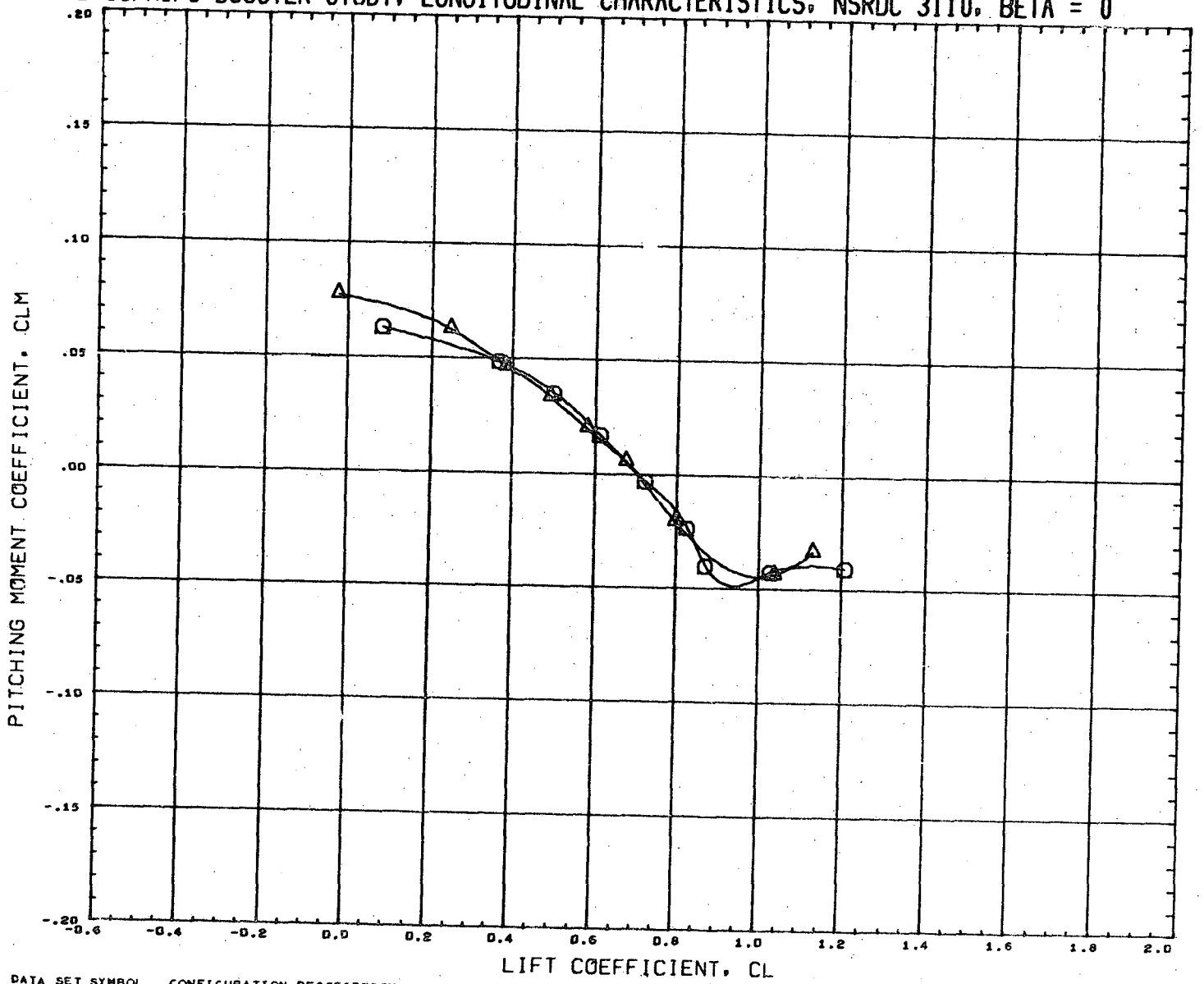


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2173)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000
(RN2189)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

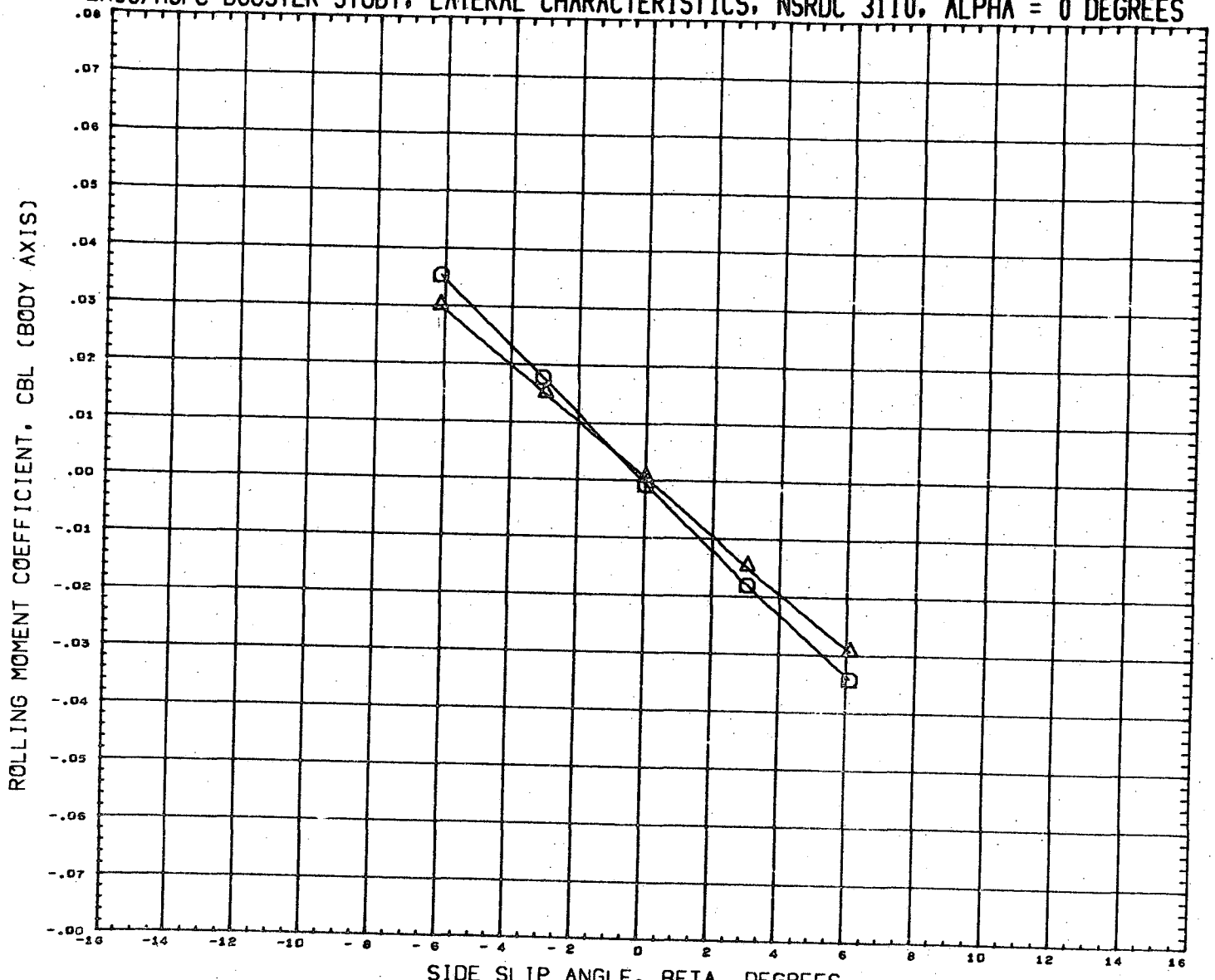


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2173)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000
(RN2189)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

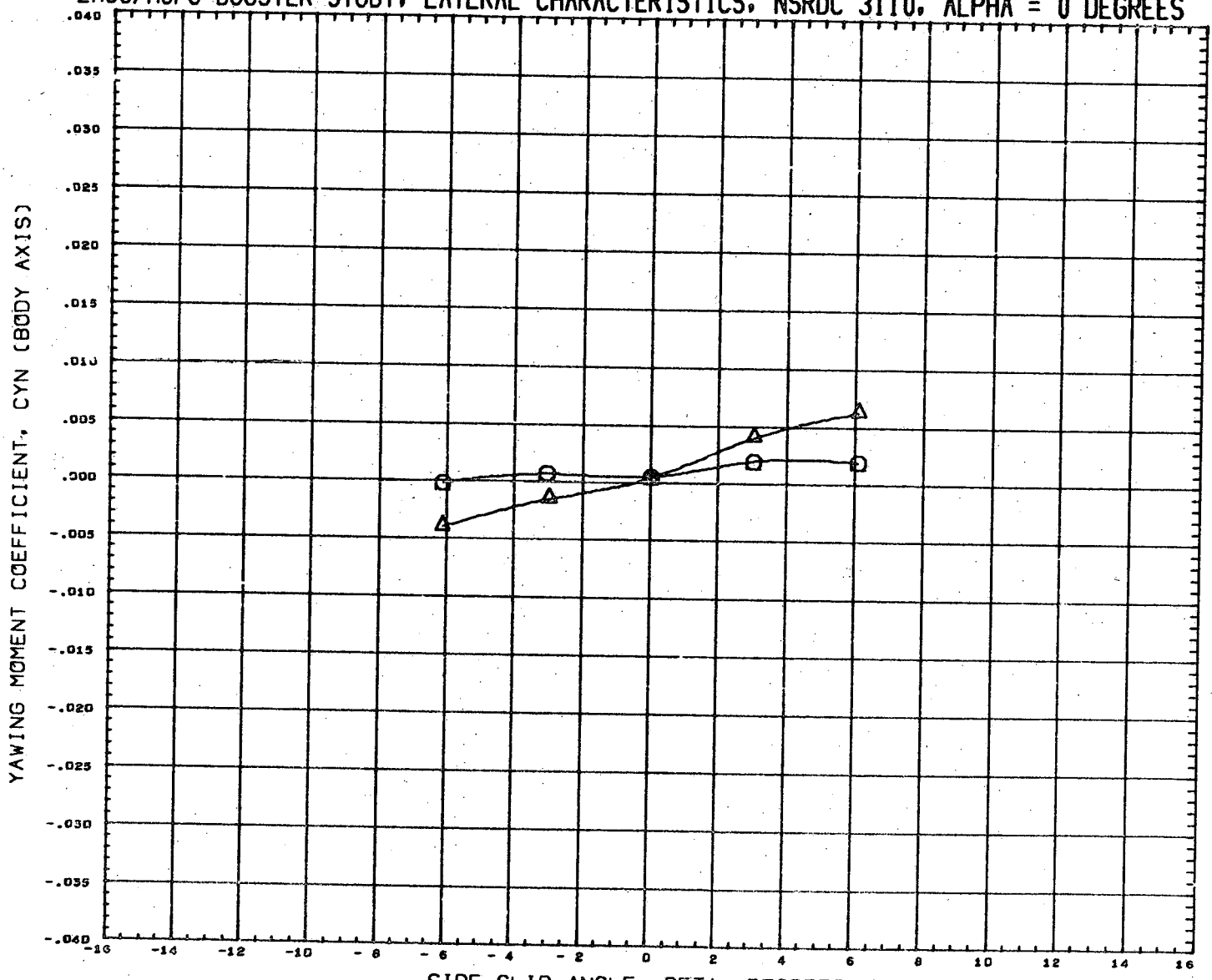


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2174)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000
(RN219D)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

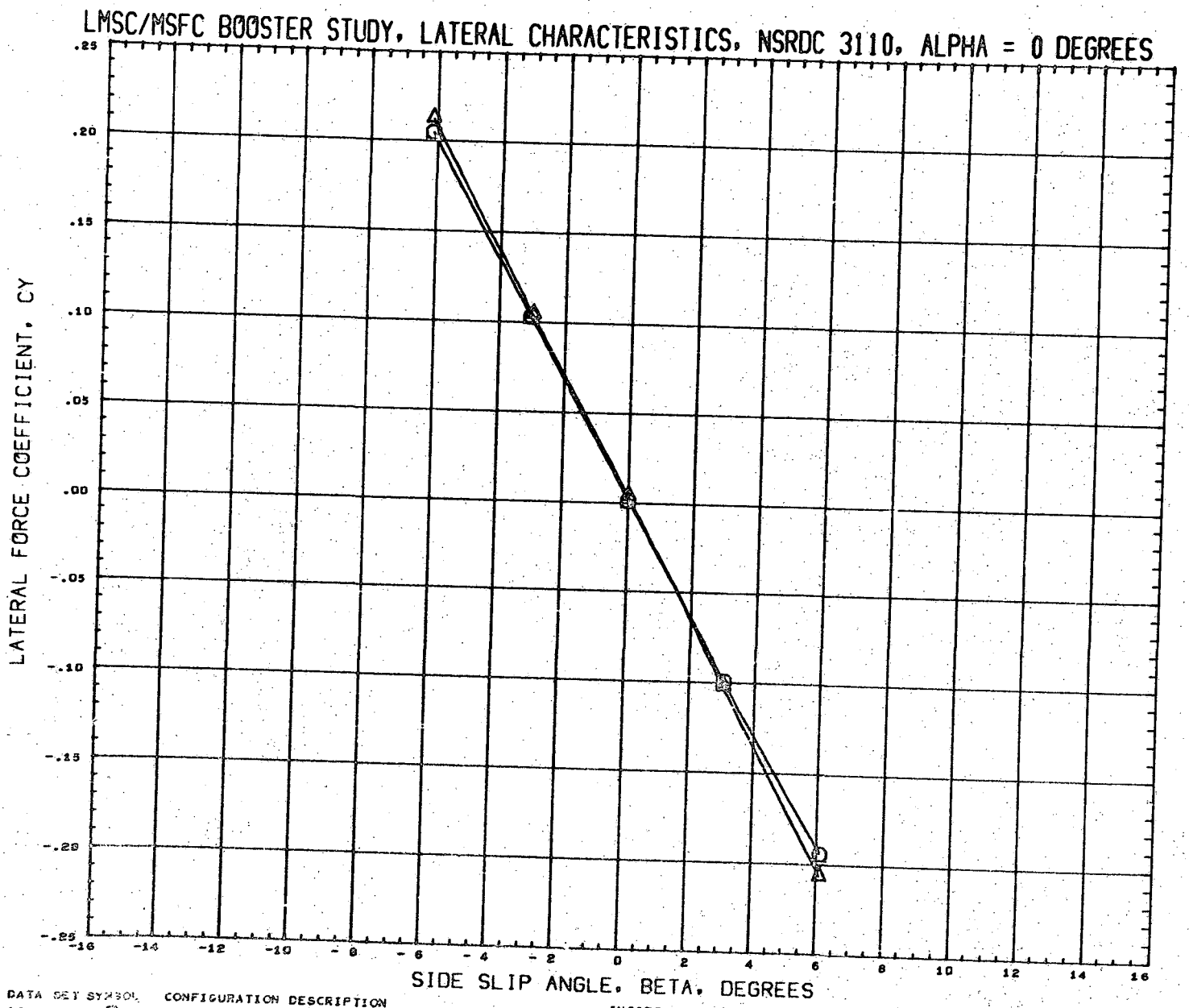
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2174)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000
(RN2190)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.381

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS
(RN2174)	○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000
(RN2190)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000

MACH 0.361

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT